

Please see the **314 CMR 4.00 Summary and Notice to Reviewers** document, as well as the Fact Sheets on particular topics for additional information and explanatory detail associated with these proposed regulatory changes. These documents are available on the MassDEP Website.

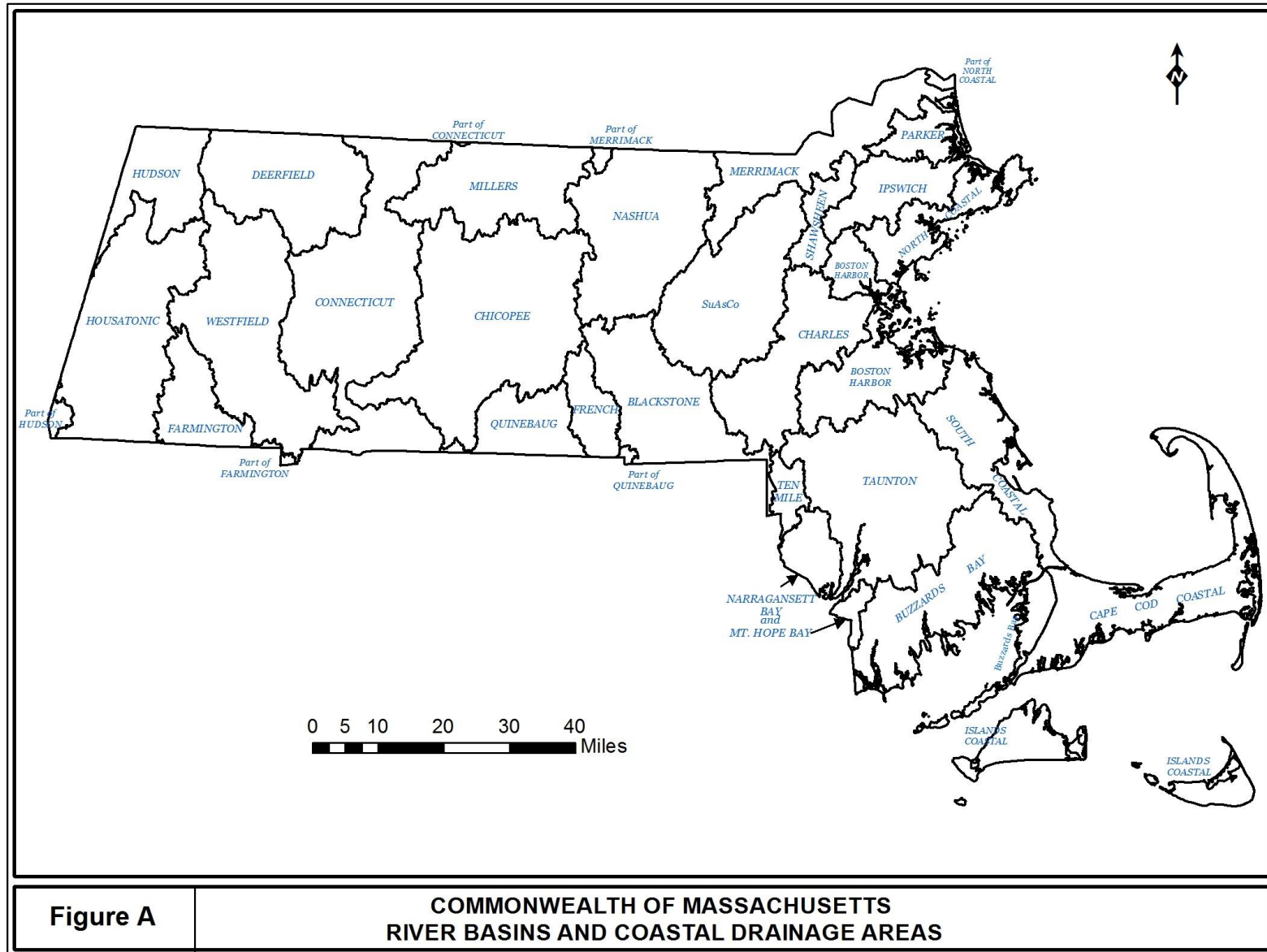
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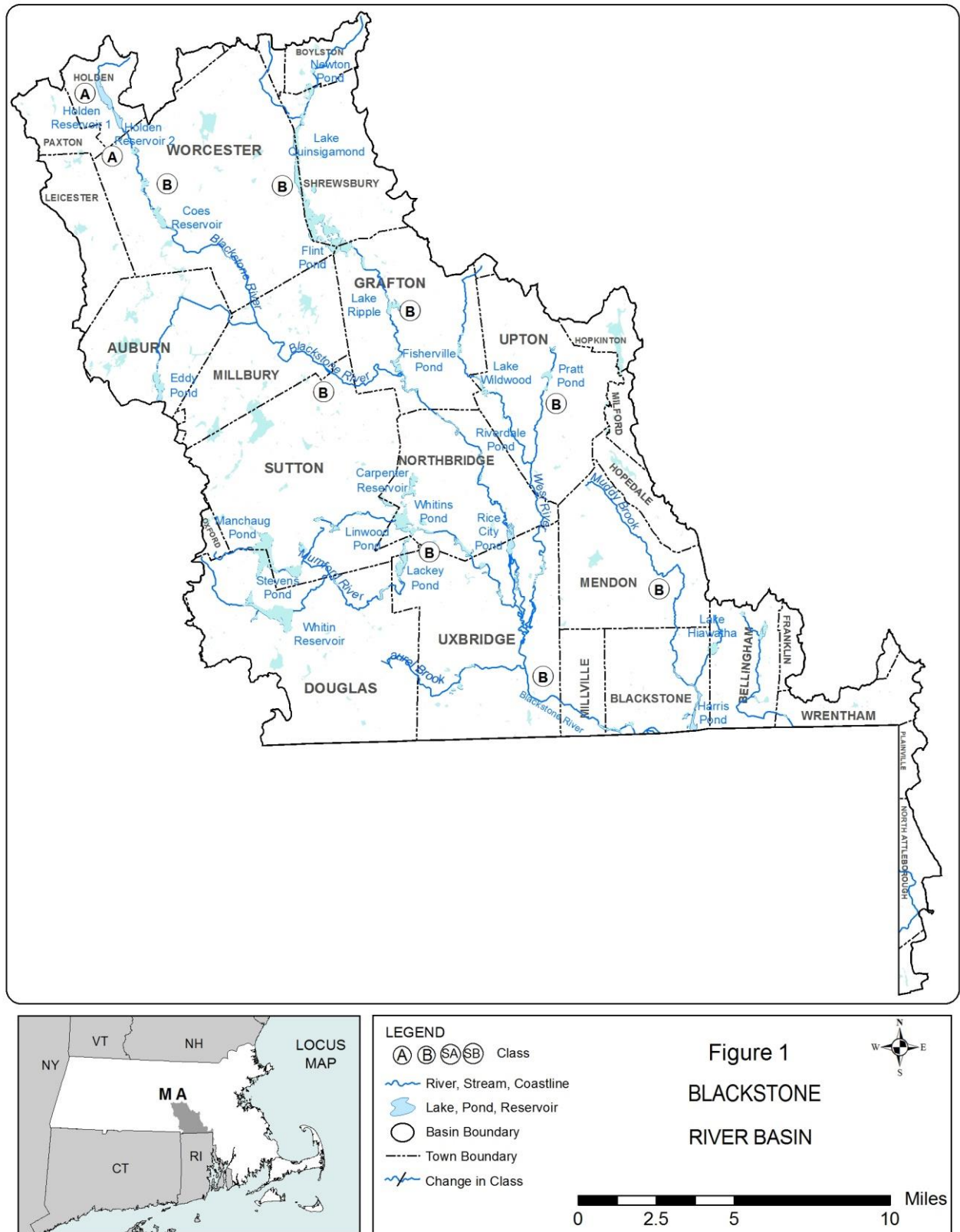
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*DISCLAIMER: The river basin bounds, the coastal drainage area bounds, and the surface water classes depicted on the figures are approximations and may not be complete. They are intended for general orientation purposes, and should not be relied upon for precise locations of any such bounds or classifications. See 314 CMR 4.06(5).

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TABLE 1 BLACKSTONE RIVER BASIN				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Kettle Brook	From outlet of Kettle Brook Reservoir #4, Paxton to dam at Reservoir #1, (flowing through and including Kettle Brook Reservoirs 1, 2 and 3) and those tributaries thereto	14.7 - 9.7	A	PWS ORW
	From dam at Reservoir #1 to outlet of Waite Pond	9.7 - 8.0	B	Warm Water
	From outlet of Waite Pond to inlet of Leesville Pond	8.0 - 0.0	B	Warm Water
Leesville Pond	Entire pond in Auburn and Worcester		B	Warm Water
Unnamed stream	From outlet of Leesville Pond, Worcester, to inlet of Curtis Ponds, Worcester		B	Warm Water
Curtis Ponds	Entire ponds (North and South), Worcester		B	Warm Water
Middle River	From outlet of Coes Pond, Worcester, to confluence with an unnamed stream (Mill Brook)	2.5 - 0.0	B	Warm Water
Blackstone River	From confluence of Middle River and unnamed stream (Mill Brook), Worcester to outlet of Fisherville Pond	48.8 - 39.8	B	Warm Water CSO
	Outlet of Fisherville Pond to MA-RI state line	39.8 - 20.0	B	Warm Water
Unnamed stream (Mill Brook)	From outlet of Indian Lake, Worcester, to confluence with Middle River, Worcester	3.0 - 0.0	B	Warm Water CSO
Quinsigamond River	Entire length	5.3 - 0.0	B	Warm Water

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TABLE 1 BLACKSTONE RIVER BASIN (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Mumford River	Source to Douglas POTW discharge	14.5 - 9.0	B	Warm Water High Quality Water
	From Douglas POTW discharge to confluence with the Blackstone River	9.0 - 0.0	B	Warm Water
West River	Source to Upton POTW discharge		B	Cold Water High Quality Water
	From the Upton POTW discharge to confluence with the Blackstone River, Uxbridge	8.8 - 0.0	B	Warm Water
Mill River	From the outlet of North Pond, Milford, to the Mendon/Blackstone town line		B	Warm Water
	From the Mendon/Blackstone town line to a line 1000 feet northerly of and parallel to the MA-RI state line, Blackstone		B	Warm Water Treated Water Supply
Beaver Brook	Entire length, Worcester	3.0 - 0.0	B	Warm Water High Quality Water
Weasel Brook	Entire length, Worcester	3.0 - 0.0	B	Warm Water High Quality Water

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TABLE 1 BLACKSTONE RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Kettle Brook Reservoir No. 4	Entire reservoir in Paxton and those tributaries thereto		A	PWS ORW
Lynde Brook Reservoir	Entire reservoir in Leicester and those tributaries thereto		A	PWS ORW
#2 Holden Reservoir	Entire reservoir in Holden and those tributaries thereto		A	PWS ORW
#1 Holden Reservoir	Entire reservoir in Holden and those tributaries thereto		A	PWS ORW
Wallum Lake	The northern portion of the lake in Douglas to a line 1000 feet northerly of and parallel to the MA-RI state line		B	Treated Water Supply
MA interstate surface waters that flow into Rhode Island PWSs	From a line in MA which is 1000 feet upstream from and parallel to the MA-RI state line, to that state line (including, but not limited to, the relevant portions of Wallum Lake in Douglas, Mill River in Blackstone, and the entirety of Robin Hollow Pond in North Attleborough)		A	PWS ORW
Coal Mine Brook	Source in Worcester to inlet of Lake Quinsigamond, Worcester		B	Cold Water
Cold Spring Brook	Entire length, Uxbridge		B	Cold Water
Scott Brook	Source in Holden to inlet of Holden Reservoir No 1, Holden		A	Cold Water PWS ORW

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TABLE 1 BLACKSTONE RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Warren Brook	Entire length, Upton ²		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

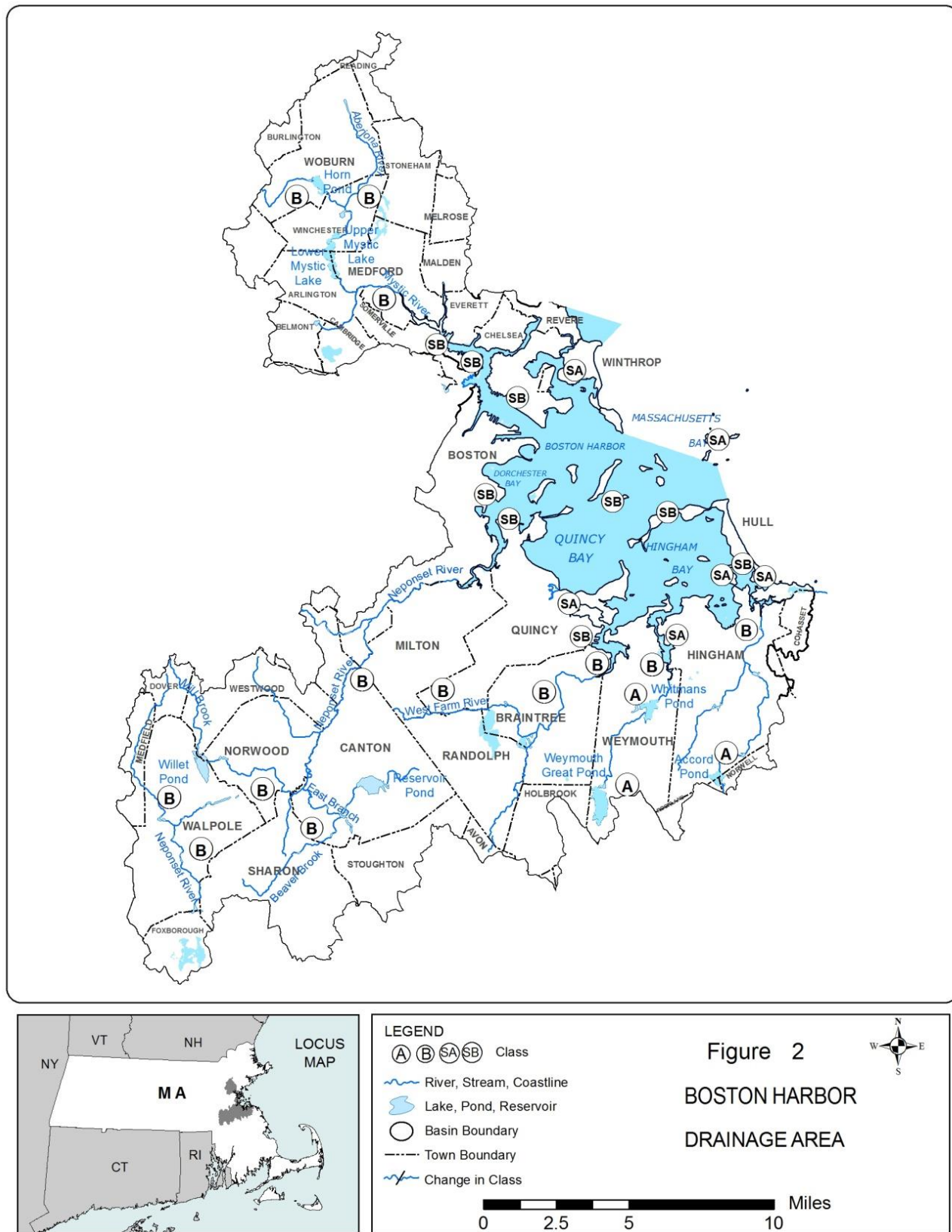
²Note that all or a portion of this surface water is within the Miscoe, Warren and Whitehall Watersheds Area of Critical Environmental Concern

*Acronyms:

CSO = Combined Sewer Overflow
 ORW = Outstanding Resource Water
 PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 2 BOSTON HARBOR DRAINAGE AREA				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Boston Harbor	Entire harbor, from the respective seaward boundaries of Boston Inner Harbor, and Pleasure, Dorchester, Quincy, and Hingham bays, easterly to a straight line drawn from the southerly tip of Deer Island to Boston Lighthouse on Little Brewster Island, then south to Point Allerton in Hull.		SB	Shellfishing
Pleasure Bay	Entire semi-enclosed bay, its seaward boundary formed by a straight line drawn from the southerly tip of Castle Island to the northerly tip of Head Island, Boston.		SB	Shellfishing
Boston Inner Harbor	Entire inner harbor, inclusive of the Reserved, Fort Point and Little Mystic channels, from the respective mouths of the Charles, Mystic, and Chelsea rivers, southeasterly to its seaward boundary formed by a straight line drawn from the southern tip of Governors Island to Fort Independence, Boston.		SB(CSO)	
Island End River	Entire river, Everett/Chelsea, to confluence with the Mystic River		SB(CSO)	

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TABLE 2 BOSTON HARBOR DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Chelsea River (Chelsea Creek)	Entire river, from the confluence of Mill Creek, Chelsea/Revere to its mouth at Boston Inner Harbor, Boston/Chelsea.		SB(CSO)	
Dorchester Bay	Entire bay, from the mouth of the Neponset River, Boston/Quincy, northeasterly to the bay's seaward boundary formed by straight lines drawn from the southerly tip of Head Island, Boston, to the north side of Thompson Island, Boston; and from the southerly tip of Thompson Island to Chapel Rocks, Quincy.		SB	Shellfishing
Quincy Bay	The southern portion of Quincy Bay in Quincy, southerly of a seaward boundary formed by a straight line drawn from Bromfield Street near 692 Quincy Shore Drive (the Wollaston Yacht Club) northeast to 42° 17' 3" N, 71° 00' 1" W (buoy "C 1") southeast to Houghs Neck near Sea Street and Peterson Road (formerly referred to as the "Willows"), Quincy		SA	Shellfishing
	The northern portion of Quincy Bay: northeasterly from the seaward boundary of the southern portion, to a seaward boundary formed by a straight line drawn from the eastern tip of Moon Head to the northern tip of Nut Island, Quincy.		SB	Shellfishing

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TABLE 2 BOSTON HARBOR DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Hingham Harbor	Entire harbor in Hingham, southerly of the seaward boundary formed by a straight line drawn from Crow Point to Worlds End Promontory		SA	Shellfishing
Hingham Bay	Entire bay, westerly of the seaward boundaries of Hull Bay and Hingham Harbor and of the mouth of the Weir River; and northerly of the mouths of the Weymouth Fore and Weymouth Back rivers; to its northwest and seaward boundary formed by a straight line drawn from the northerly tip of Nut Island, Quincy, to Peddocks Island at the southerly point of West Head, Hull; and from the northeastern point of Peddocks Island, Hull, to Windmill Point, Hull.		SB	Shellfishing
Hull Bay	Entire bay, its western and seaward boundary formed by straight lines drawn from Windmill Point, Hull, to Bumkin Island (Bumpkin Island), Hingham; and from the easterly point of Bumkin Island to the westerly point of Sunset Point, Hull.		SB	Shellfishing
Other coastal and marine waters	In the Boston Harbor Drainage Area		SB	Shellfishing
Aberjona River	Source in Woburn to outlet of Mishawum Lake	9.5 -5.9	B	Warm Water

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TABLE 2 BOSTON HARBOR DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Aberjona River (cont.)	Outlet of Mishawum Lake to inlet of Upper Mystic Lake	5.9 - 0.0	B	Warm Water
Upper Mystic Lake	Entire lake, Winchester/Arlington/Medford		B	Warm Water
Lower Mystic Lake	Entire lake, Arlington/Medford		B	Warm Water
Mystic River	From outlet of Lower Mystic Lake to Amelia Earhart Dam, Somerville/Everett	7.4 - 2.0	B	Warm Water CSO
	Amelia Earhart Dam, Somerville/Everett to its mouth at Boston Inner Harbor, Chelsea/Charlestown	2.0 - 0.0	SB(CSO)	Shellfishing
Malden River	Entire length, Everett/Malden/Medford	1.9 - 0.0	B	Warm Water
Alewife Brook	Entire length, source in Cambridge to confluence with Mystic River, Arlington/Somerville		B	Warm Water CSO
Little River	From 150 feet upstream of the confluence with Alewife Brook, Cambridge, to the confluence with Alewife Brook, Cambridge		B	Warm Water CSO
Horn Pond	Entire pond to outlet in Woburn		B	Warm Water
Belle Isle Inlet	Entire inlet and those tributaries thereto ² , Boston/Winthrop		SA	Shellfishing ORW
North Reservoir	Entire reservoir to outlet in Winchester and those tributaries thereto		A	PWS ORW

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TABLE 2 BOSTON HARBOR DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Middle Reservoir	Entire reservoir to outlet in Medford and those tributaries thereto		A	PWS ORW
South Reservoir	Entire reservoir to outlet in Medford and those tributaries thereto		A	PWS ORW
Fresh Pond	Entire pond to outlet in Cambridge and those tributaries thereto		A	PWS ORW
Neponset Reservoir	Entire reservoir to outlet into Crackrock Pond, Foxborough		B	Warm Water High Quality Water
Neponset River	From outlet of Neponset Reservoir, Foxborough, to confluence with Mother Brook, Boston (inclusive of Crackrock Pond)		B	Warm Water
	From confluence with Mother Brook, Boston, to Milton Lower Falls Dam (Neponset River Baker Chocolate Dam, NAT ID: MA0193), Milton/Boston	7.9 - 4.2	B	Warm Water
	Tidal portion, from Milton Lower Falls Dam (Neponset River Baker Chocolate Dam, NAT ID: MA0193), Milton/Boston to its mouth at Dorchester Bay, Boston/Quincy	4.2 - 0.0	SB	Shellfishing
Weymouth Fore River	Entire river to its mouth at Hingham Bay formed by a straight line between Lower Neck, Weymouth and Wall Street on Houghs Neck, Quincy.		SB, B**	Shellfishing [†] Warm Water [†]

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TABLE 2
BOSTON HARBOR DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Weymouth Back River	From the base of the fish ladder north of Commercial Street, Weymouth, to its mouth at Hingham Bay formed by a straight line between Lower Neck, Weymouth and Wompatuck Road, Hingham. ³		SA, B**	Shellfishing† Warm Water† ORW
Weir River	From confluence of Crooked Meadow River and Fulling Mill Brook to its mouth at Hingham Bay ⁴ formed by a straight line from the northerly point of Worlds End, Hingham, to Nantasket Road near Beech Avenue, Hull.		SA, B**	Shellfishing† ORW
Fresh River	Entire river in Weymouth/Hingham ³ , to confluence with the Weymouth Back River		SA, B**	Warm Water†
Cranberry Brook	From the outlet of Cranberry Pond, Braintree, to confluence with the Cochato River, Braintree ⁵		B	ORW
Cranberry Pond	Entire pond to outlet in Braintree ⁵		B	ORW
Bouve Pond	Entire pond in Hingham ³		B	Warm Water ORW
Brewer Pond	Entire pond in Hingham ³		B	Warm Water ORW
Straits Pond	Entire pond in Hull and Cohasset ⁴		B	Warm Water ORW

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TABLE 2 BOSTON HARBOR DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Great Pond	Entire pond to outlet in Braintree and those tributaries thereto		A	PWS ORW
Upper Reservoir of Great Pond	Entire reservoir to outlet in Braintree and those tributaries thereto		A	PWS ORW
Whitmans Pond	Entire pond to outlet in Weymouth and those tributaries thereto		A	PWS ORW
Richardi Reservoir	Entire reservoir to outlet in Braintree and those tributaries thereto		A	PWS ORW
Weymouth Great Pond (Great Pond)	Entire pond to outlet in Weymouth and those tributaries thereto		A	PWS ORW
Accord Pond	Entire pond to outlet in Hingham and those tributaries thereto		A	PWS ORW
Accord Brook	From outlet of Accord Pond, Hingham, to water supply intake, Hingham, and those tributaries thereto		A	PWS ORW

¹ Names cited in parentheses are unofficial, locally-used names² Note that all or a portion of these surface waters are within the Rumney Marshes Area of Critical Environmental Concern (ACEC)³ Note that all or a portion of these surface waters are within the Weymouth Back River ACEC⁴ Note that all or a portion of these surface waters are within the Weir River ACEC⁵ Note that all or a portion of these surface waters are within the Cranberry Brook Watershed ACEC

*Acronyms:

CSO = Combined Sewer Overflow

ORW = Outstanding Resource Water

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*Acronyms (cont.):

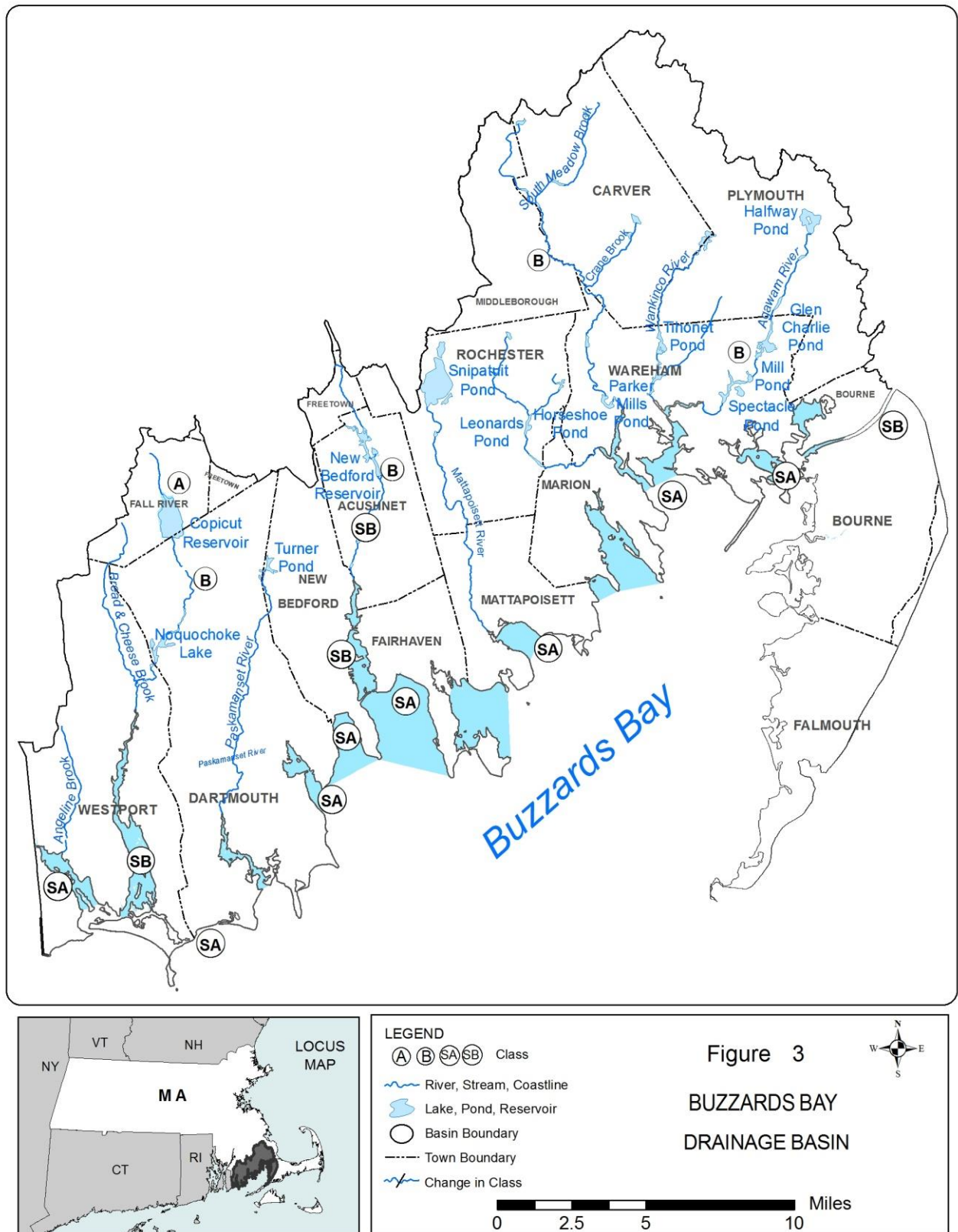
PWS = Public Water Supply

**Coastal and marine waters Class SA or SB as designated; fresh waters Class B

†Shellfishing applies to coastal and marine waters only; warm water applies to fresh waters only

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 3
BUZZARDS BAY COASTAL DRAINAGE AREA

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT‡</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Cape Cod Canal	The portion of the canal in Sandwich		SB	Shellfishing
	The portion of the canal in Bourne		SB	Shellfishing
Buttermilk Bay	Entire bay in Bourne/Plymouth		SA	Shellfishing
Onset Bay	Entire bay in Wareham		SA	Shellfishing
Pocasset River ²			SA	Shellfishing ORW
Agawam River	Source to Wareham POTW discharge	Above 2.2	B	Warm Water High Quality Water
	From Wareham POTW discharge to confluence with the Wareham River	2.2 - 0.0	SB	Shellfishing
Wareham River	Entire length, from confluence of Wankinko and Agawam Rivers at Route 6 bridge, Wareham to confluence with Buzzards Bay, Wareham (inclusive of Marks Cove).		SA	Shellfishing High Quality Water
Weweantic River	Source to outlet of Horseshoe Pond	Above 4.4	B	Warm Water High Quality Water
	From the outlet of Horseshoe Pond to confluence with Buzzards Bay	4.4 - 0.0	SA	Shellfishing High Quality Water

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TABLE 3
BUZZARDS BAY COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Sippican River	Source to County Road, Marion/Wareham	Above 2.1	B	Warm Water High Quality Water
	From County Road, Marion/Wareham to confluence with the Weweantic River	2.1 - 0.0	SA	Shellfishing High Quality Water
Sippican Harbor	Entire harbor		SA	Shellfishing
Aucoot Cove	Entire cove		SA	Shellfishing
Mattapoisett Harbor	Entire harbor		SA	Shellfishing
Nasketucket Bay	Entire bay		SA	Shellfishing
New Bedford Reservoir	Entire reservoir		B	Warm Water High Quality Water
Acushnet River	From outlet of New Bedford Reservoir to Tarkiln Hill Road/Main Street, New Bedford/Acushnet	7.0 - 3.3	B	Warm Water High Quality Water
	From Tarkiln Hill Road/Main Street, New Bedford/Acushnet to Rt. 6, New Bedford/ Fairhaven	3.3 - 0.0	SB	Shellfishing CSO
Inner New Bedford Harbor		1.2 - 0.0	SB	Shellfishing CSO
Outer New Bedford Harbor	Entire harbor		SA	Shellfishing

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TABLE 3 BUZZARDS BAY COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Clarks Cove	New Bedford/Dartmouth		SA	Shellfishing CSO
Apponagansett Bay	New Bedford/Dartmouth		SA	Shellfishing
Slocums River	From confluence with the Paskamanset River, Dartmouth, to confluence with Buzzards Bay, Dartmouth		SA	Shellfishing High Quality Water
Westport River, East Branch	From the outlet of Noquochoke Lake to Old County Road, Westport	12.0 - 10.0	B	Warm Water High Quality Water
	From Old County Road, Westport to confluence with Westport Harbor and Horseneck Channel	10.0 - 0.0	SB	Shellfishing High Quality Water
Westport River, West Branch	Entire length		SA	Shellfishing High Quality Water
Freeman Pond	Entire pond in Bourne ²		SA, B**	Warm Water† ORW
Mill Pond	Entire pond in Bourne ²		SA, B**	Warm Water† ORW
Shop Pond	Entire pond in Bourne ²		SA, B**	Warm Water† ORW
Upper Pond	Entire pond in Bourne ²		SA, B**	Warm Water† ORW

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TABLE 3 BUZZARDS BAY COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Copicut Reservoir	Entire reservoir to outlet in Fall River and Dartmouth and those tributaries thereto		A	PWS ORW
Sand Pond Reservoir	Entire reservoir to outlet in Wareham and those tributaries thereto		A	PWS ORW

¹Names cited in parentheses are unofficial, locally-used names²Note that all or a portion of these surface waters are within the Pocasset River Area of Critical Environmental Concern

*Acronyms:

CSO = Combined Sewer Overflow

ORW = Outstanding Resource Water

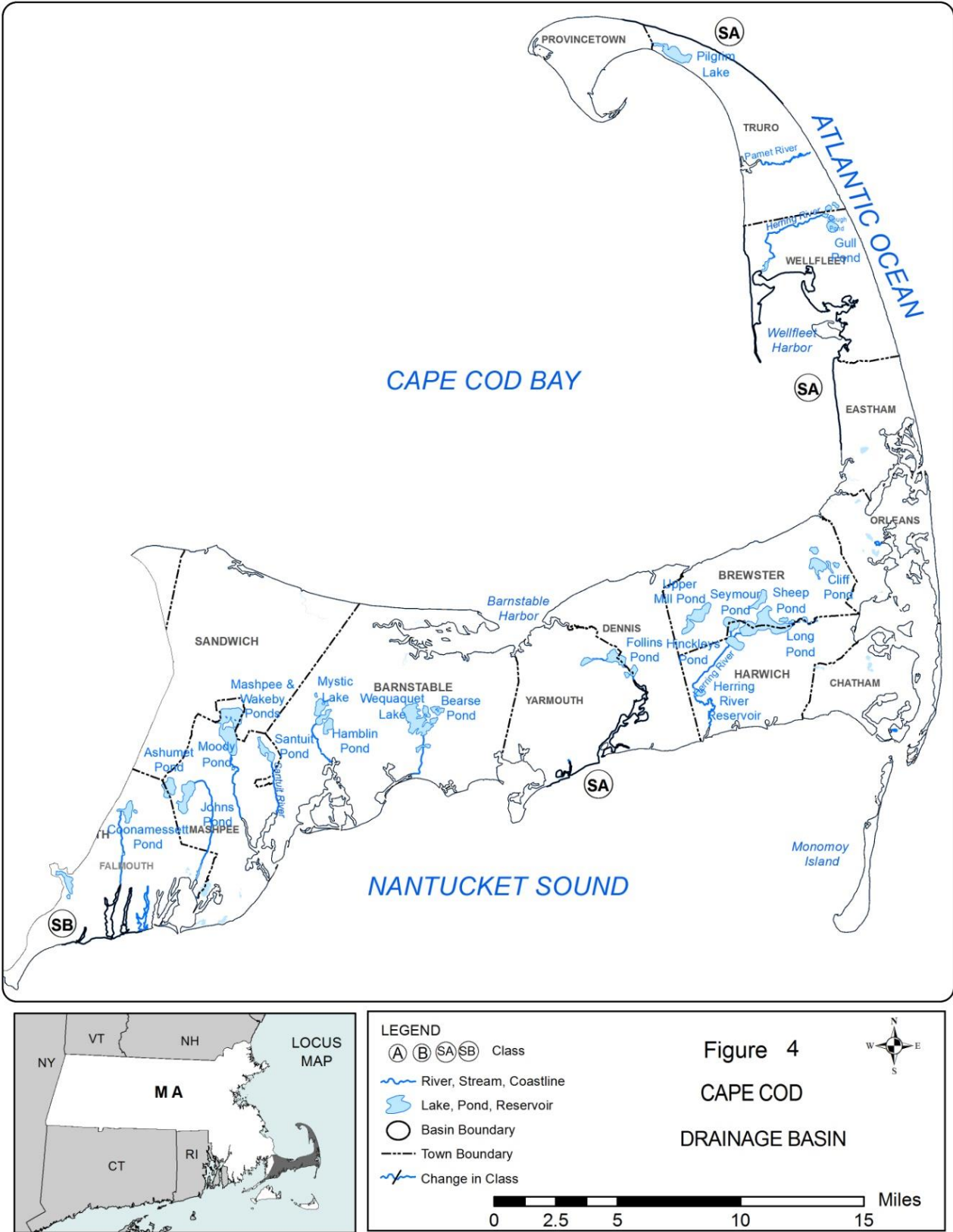
PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

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†Warm water applies to fresh waters only

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TABLE 4 CAPE COD COASTAL DRAINAGE AREA				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Scorton Harbor	Entire harbor		SA	Shellfishing
Scorton Creek	Source in Sandwich to confluence with Scorton Harbor and those tributaries thereto		SA, B**	Shellfishing†
Barnstable Harbor	Entire area excluding Freezer Point and the developed marina ²		SA	Shellfishing ORW
Broad Sound	Entire sound		SA	Shellfishing
Bass Creek	Entire creek		SA	Shellfishing
Brickyard Creek	Entire creek		SA, B**	Shellfishing†
Mill Creek	Entire creek		SA	Shellfishing
Wells Creek	Entire creek		SA	Shellfishing
Namskaket Creek	Entire creek ³		SA, B**	Shellfishing† ORW
Little Namskaket Creek	Entire creek ³		SA, B**	Shellfishing† ORW
Rock Harbor Creek	Entire creek ³		SA, B**	Shellfishing† ORW
Boat Meadow River	Entire river ³		SA, B**	Shellfishing ORW

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TABLE 4 CAPE COD COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Herring River	Entire river ³		SA, B**	Shellfishing† ORW
Pleasant Bay	Entire bay and those tributaries thereto ⁴		SA, B**	Shellfishing† ORW
Ryder Cove	Portion of the surface water within the Pleasant Bay ACEC, Chatham		SA	ORW
Bassing Harbor	Portion of the surface water within the Pleasant Bay ACEC, Chatham		SA	ORW
Frost Fish Creek	Portion of the surface water within the Pleasant Bay ACEC, Chatham		SA, B**	ORW
Muddy Creek	Portion of the surface water within the Pleasant Bay ACEC, Chatham		SA	ORW
Round Cove	Portion of the surface water within the Pleasant Bay ACEC, Harwich		SA	ORW
Namequoit River	Portion of the surface water within the Pleasant Bay ACEC, Orleans		SA	ORW
The River	Portion of the surface water within the Pleasant Bay ACEC, Orleans		SA	ORW
The Horseshoe	Portion of the surface water within the Pleasant Bay ACEC, Orleans		SA	ORW

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4.06: continued

TABLE 4 CAPE COD COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
The Narrows	Portion of the surface water within the Pleasant Bay ACEC, Orleans		SA	ORW
Frostfish Cove	Portion of the surface water within the Pleasant Bay ACEC, Orleans		SA	ORW
Hog Island Creek	Portion of the surface water within the Pleasant Bay ACEC, Orleans		SA	ORW
Broad Creek	Portion of the surface water within the Pleasant Bay ACEC, Orleans		SA	ORW
Waquoit Bay	Entire bay and those tributaries thereto ⁵		SA, B**	Shellfishing† ORW
Childs River	Portion of the surface water within the Waquoit Bay ACEC, Falmouth		SA, B**	ORW
Quashnet River	Portion of the surface water within the Waquoit Bay ACEC, Falmouth		SA, B**	ORW
Red Brook	Portion of the surface water within the Waquoit Bay ACEC, Mashpee		SA, B**	ORW
Falmouth Inner Harbor	Falmouth		SB	Shellfishing
Herring Pond (Coles Pond)	Entire pond in Eastham ³		SA, B**	Warm Water† ORW
Cedar Pond	Entire pond in Orleans ³		SA, B**	Warm Water† ORW

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4.06: continued

TABLE 4 CAPE COD COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Stillwater Pond	Entire pond in Chatham ⁴		B	Warm Water ORW
Lovers Lake	Entire lake in Chatham ⁴		B	Warm Water ORW
Mill Pond	Entire pond in Chatham/East Harwich ⁴		B	Warm Water ORW
Ministers Pond	Entire pond in Chatham ⁴		B	Warm Water ORW
Crows Pond	Entire pond in Chatham ⁴		SA	ORW
Pilgrim Lake (Dean Sparrows Pond)	Entire lake in Orleans ⁴		B	Warm Water ORW
Quanset Pond	Entire pond in Orleans ⁴		SA	ORW
Crystal Lake (Fresh Pond)	Entire lake in Orleans ⁴		B	Warm Water ORW
Paw Wah Pond	Entire pond in Orleans ⁴		SA	ORW

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4.06: continued

TABLE 4 CAPE COD COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Uncle Seths Pond	Entire pond in Orleans ⁴		B	Warm Water ORW
Sarahs Pond	Entire pond in Orleans ⁴		B	Warm Water ORW
Areys Pond	Entire pond in Orleans ⁴		SA	ORW
Gould Pond	Entire pond in Orleans ⁴		B	Warm Water ORW
Kescayo Gansett Pond	Entire pond in Orleans ⁴		SA	ORW
Meeting House Pond	Entire pond in Orleans ⁴		SA	ORW
Bourne Pond	Entire pond in Falmouth ⁵		B	Warm Water ORW
Bog Pond	Entire pond in Falmouth ⁵		SA, B**	Warm Water† ORW
Caleb Pond	Entire pond in Falmouth ⁵		SA	ORW
Hamblin Pond	Entire pond in Falmouth/Mashpee ⁵		SA	ORW

4.06: continued

TABLE 4 CAPE COD COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Flat Pond	Entire pond in Mashpee ⁵		SA, B**	Warm Water† ORW
Jehu Pond	Entire pond in Mashpee ⁵		SA	ORW
Jim Pond	Entire pond in Mashpee ⁵		B	Warm Water ORW
Lily Pond (Little Flat Pond)	Entire pond in Mashpee ⁵		SA, B**	Warm Water† ORW
Sage Lot Pond	Entire pond in Mashpee ⁵		SA	ORW
Witch Pond	Entire pond in Mashpee ⁵		B	Warm Water ORW
Long Pond (Long Pond Reservoir)	Entire pond to outlet in Falmouth and those tributaries thereto		A	PWS ORW
Atlantic Ocean and other surface waters within/bordering the Cape Cod National Seashore	Waters within and adjacent (within 1,000 feet seaward of mean low water) to the Cape Cod National Seashore		SA, B**	Shellfishing† ORW

¹Names cited in parentheses are unofficial, locally-used names²Note that all or a portion of these surface waters are within the Sandy Neck Barrier Beach System ACEC³Note that all or a portion of these surface waters are within the Inner Cape Cod Bay ACEC⁴Note that all or a portion of these surface waters are within the Pleasant Bay ACEC⁵Note that all or a portion of these surface waters are within the Waquoit Bay ACEC

4.06: continued

*Acronyms:

ACEC = Area of Critical Environmental Concern

ORW = Outstanding Resource Water

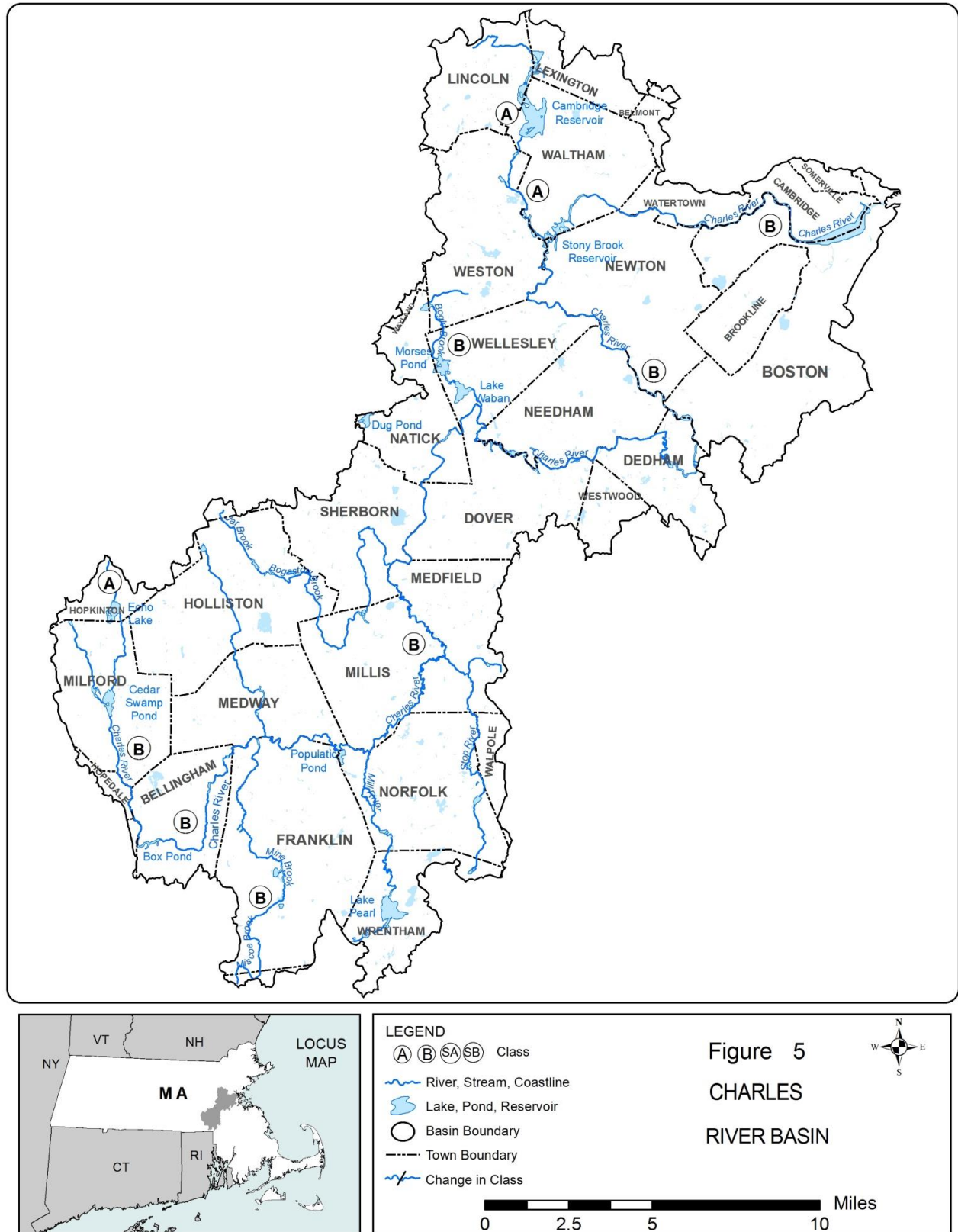
PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

†Shellfishing applies to marine and coastal waters only; warm water applies to fresh waters only.

4.06: continued



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TABLE 5
CHARLES RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT†</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Charles River	Source to Dilla Street, Milford and those tributaries thereto	78.2 - 75.8	A	PWS ORW
	From Dilla Street, Milford to Milford POTW discharge	75.8 - 72.7	B	Aquatic Life
	From Milford POTW discharge to outlet of Populatic Pond, Medway	72.7 - 58.2	B	Warm Water
	From outlet of Populatic Pond, Medway, to South Natick Dam	58.2 - 40.3	B	Warm Water
	From South Natick Dam to Watertown Dam	40.3 - 9.1	B	Warm Water
	From Watertown Dam to BU Bridge	9.1 - 3.0	B	Warm Water CSO
	From BU Bridge to its mouth at the New Charles River Dam (inclusive of Charles River Basin)	3.0 - 0.0	B	Warm Water CSO
Muddy River	Entire length	2.7 - 0.0	B(CSO)	Warm Water
Mine Brook	Source to former Franklin POTW discharge	7.2 - 4.0	B	Warm Water High Quality Water

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4.06: continued

TABLE 5
CHARLES RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT†</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Mine Brook (cont.)	From former Franklin POTW discharge to confluence with the Charles River, Franklin	4.0 - 0.0	B	Warm Water
Unnamed tributary (Sugar Brook)	Source in Millis to confluence with the Charles River, Millis		B	Warm Water High Quality Water
Stony Brook Reservoir (Turtle Pond)	Entire reservoir to outlet in Weston/Waltham and those tributaries thereto		A	PWS ORW
Cambridge Reservoir (Hobbs Brook Upper and Lower Reservoirs)	Entire reservoir to outlet in Waltham and those tributaries thereto (this reservoir is a “feeder” to Fresh Pond, Cambridge)		A	PWS ORW
Sandy Pond (Flint's Pond)	Entire pond to outlet in Lincoln and those tributaries thereto		A	PWS ORW
Echo Lake	Entire lake to outlet in Hopkinton and those tributaries thereto		A	PWS ORW
Louisa Lake	Entire lake to outlet in Milford and those tributaries thereto		A	PWS ORW
Shepards Brook	Source in Franklin to confluence with Charles River, Franklin		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

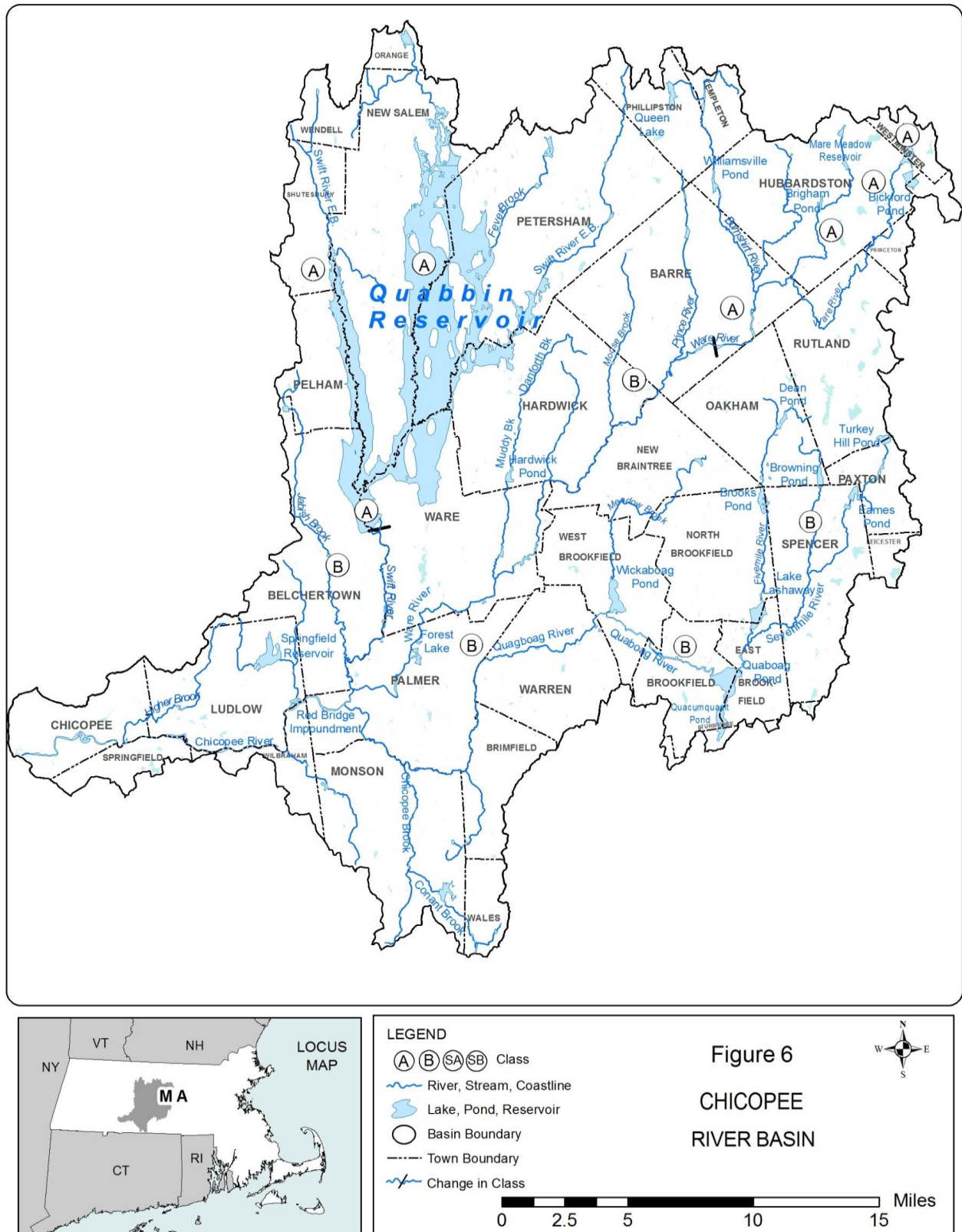
4.06: continued

*Acronyms:

CSO = Combined Sewer Overflow
ORW = Outstanding Resource Water
PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



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TABLE 6
CHICOPEE RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Ware River	Source to MDC intake and those tributaries thereto	34.0 - 29.1	A	PWS ORW
	From MDC intake to dam at South Barre	29.1 - 27.3	B	Cold Water High Quality Water
	From dam at South Barre to confluence with Quaboag River	27.3 - 0.0	B	Warm Water
Prince River	Source in Barre to confluence with the Ware River, Barre		B	Cold Water High Quality Water
Swift River	From Winsor Dam, Ware/Belchertown, to confluence with Ware River, Palmer	9.8 – 0.0	B	Cold Water
Sevenmile River	Source to confluence with Cranberry River	8.6 - 2.4	B	Warm Water High Quality Water
	From confluence with Cranberry River to confluence with East Brookfield River	2.4 - 0.0	B	Warm Water
East Brookfield River	Entire length, East Brookfield	2.2 - 0.0	B	Warm Water
Quaboag River	Source to Rt. 67	24.9 - 19.2	B	Warm Water
	Rt. 67 to Warren POTW discharge	19.2 - 13.1	B	Warm Water

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4.06: continued

TABLE 6
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Quaboag River (cont.)	From Warren POTW discharge to confluence with Ware River	13.1 - 0.0	B	Warm Water
Forget-Me-Not Brook	Source to North Brookfield POTW discharge		B	Cold Water High Quality Water
	From North Brookfield POTW discharge to confluence with Dunn Brook		B	Warm Water
Dunn Brook	From confluence with Forget-Me-Not Brook to confluence with the Quaboag River	2.4 – 0.0	B	Warm Water
Chicopee Brook	Entire length, Monson		B	Cold Water
Chicopee River	Confluence of Ware and Quaboag Rivers to confluence with the Connecticut River	17.9 - 0.0	B	Warm Water CSO
Lake Mattawa (North Pond Brook Reservoir)	Entire lake to outlet in Orange and those tributaries thereto		A	PWS ORW
Allen Hill Reservoir (Barre Town Reservoir)	Entire reservoir to outlet in Barre and those tributaries thereto		A	PWS ORW
Ludlow Reservoir (Springfield Reservoir)	Entire reservoir to outlet in Ludlow and those tributaries thereto		A	PWS ORW

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4.06: continued

TABLE 6
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Doane Pond	Entire pond to outlet in North Brookfield and those tributaries thereto		A	PWS ORW
Horse Pond (North Pond)	Entire pond and those tributaries thereto		A	PWS ORW
Palmer Reservoir (Graves Brook Upper Reservoir)	Entire reservoir to outlet in Palmer and those tributaries thereto		A	PWS ORW
Shaw Pond	Entire pond to outlet in Leicester and those tributaries thereto		A	PWS ORW
Mare Meadow Reservoir	Entire reservoir to outlet in Hubbardston and those tributaries thereto		A	PWS ORW
Bickford Pond	Entire pond to outlet in Hubbardston and those tributaries thereto		A	PWS ORW
Palmer Reservoir (Unnamed Reservoir, Graves Brook Lower Reservoir, Palmer Lower Reservoir)	Entire reservoir to outlet in Palmer and those tributaries thereto		A	PWS ORW
Quabbin Reservoir	Entire reservoir to outlet in Ware and those tributaries thereto		A	PWS ORW
Bradish Brook	Source in West Brookfield to inlet of Wickaboag Pond, West Brookfield		B	Cold Water

4.06: continued

TABLE 6
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Cadwell Brook	Source in Wilbraham to confluence with Twelvemile Brook, Wilbraham		B	Cold Water
Cadwell Creek	Source in Pelham to inlet of Quabbin Reservoir, Belchertown		A	Cold Water PWS ORW
Camel Brook	Source in Shutesbury to confluence with West Branch Swift River, Shutesbury		A	Cold Water PWS ORW
Cobb Brook	Source in Shutesbury to inlet of Quabbin Reservoir, Shutesbury		A	Cold Water PWS ORW
Pinnacle Creek	Source in Monson to confluence with Twelvemile Brook, Monson		B	Cold Water
Popple Camp Brook	Source in Phillipston to confluence with East Branch Swift River, Phillipston		A	Cold Water PWS ORW
Rocky Run	Source in Shutesbury to confluence with West Branch Swift River, Shutesbury		A	Cold Water PWS ORW
Smith Brook	Source in Barre to confluence with Prince River, Barre		B	Cold Water

4.06: continued

TABLE 6
CHICOPEE RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Turkey Brook	Source in Brimfield to confluence with Penny Brook, Brimfield		B	Cold Water
Underhill Brook	Source in New Salem to inlet of Quabbin Reservoir, New Salem		A	Cold Water PWS ORW

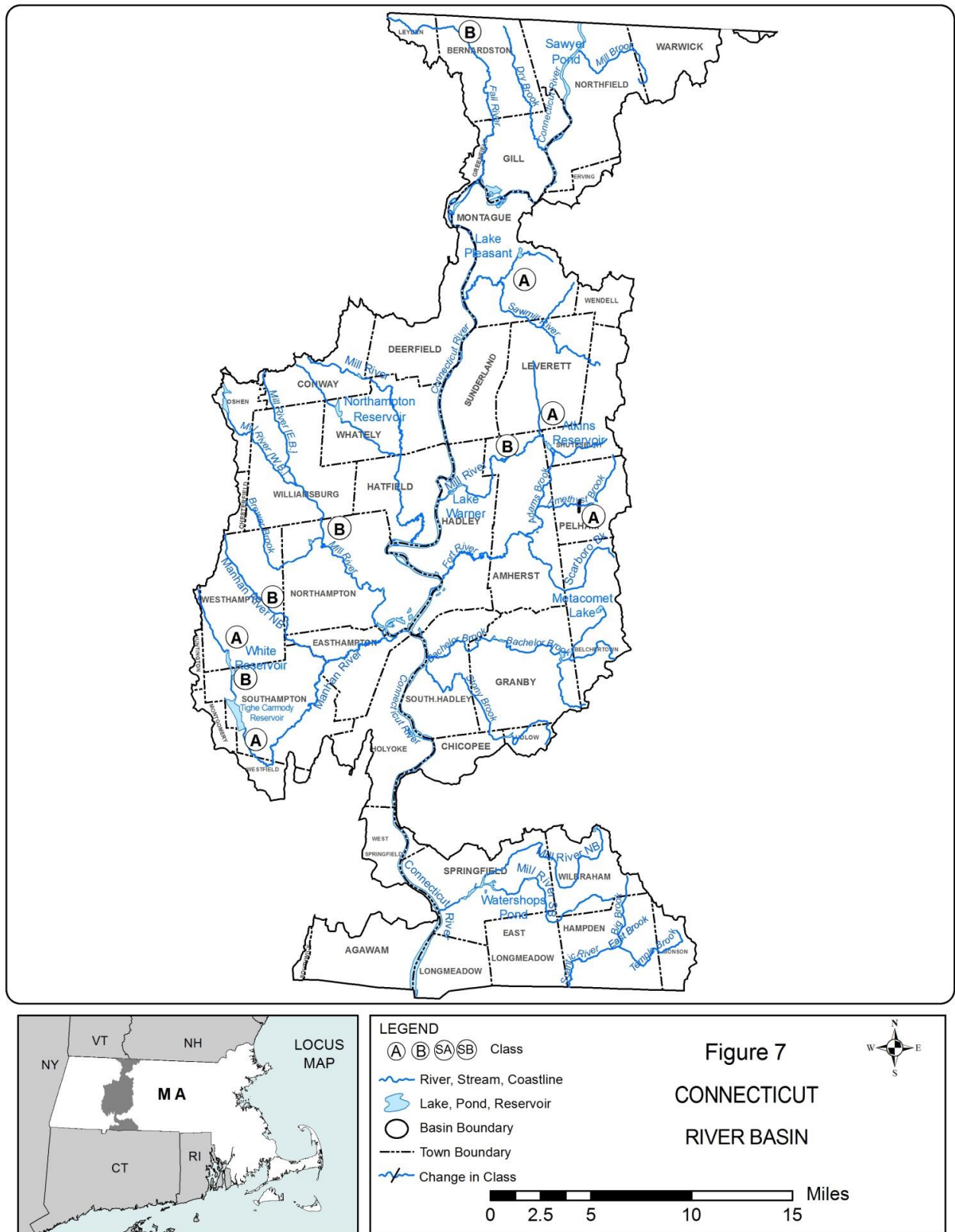
¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

CSO = Combined Sewer Overflow
MDC = Massachusetts District Commission
ORW = Outstanding Resource Water
PWS = Public Water Supply

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4.06: continued

TABLE 7 CONNECTICUT RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Connecticut River	From MA-NH-VT state line to Turner's Falls Dam	138.2 - 123.4	B	Warm Water
	From Turner's Falls Dam to Holyoke Dam	123.4 - 85.7	B	Warm Water CSO
	Holyoke Dam to MA-CT state line, Longmeadow/Agawam	85.7 - 69.8	B	Warm Water CSO
Lampson Brook	From the Belchertown POTW discharge to confluence with Weston Brook	1.1 – 0.0	B	Warm Water
Weston Brook	From confluence with Lampson Brook to inlet of Forge Pond (through which Bachelor Brook flows)	1.4 – 0.0	B	Warm Water
Bachelor Brook	From the inlet of Weston Brook to Forge Pond (through which Bachelor Brook flows) to the confluence with the Connecticut River	11.3 – 0.0	B	Warm Water
Atkins Reservoir	Entire reservoir to outlet in Shutesbury and those tributaries thereto		A	PWS ORW
Unnamed reservoir (Amethyst Brook, Hawley/Hill PWS Intake)	Entire reservoir to outlet in Pelham and tributaries thereto		A	PWS ORW
Hawley Reservoir	Entire reservoir to outlet in Pelham and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 7
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Hill Reservoir	Entire reservoir to outlet in Pelham and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Running Gutter Brook Reservoir, Hatfield Reservoir)	Entire reservoir to outlet in Hatfield and those tributaries thereto		A	PWS ORW
White Reservoir	Entire reservoir to outlet in Southampton and those tributaries thereto		A	PWS ORW
Tighe Carmody Reservoir (Manhan Reservoir)	Entire reservoir to outlet in Southampton and those tributaries thereto		A	PWS ORW
Whiting Street Reservoir	Entire reservoir to outlet in Holyoke and those tributaries thereto		A	PWS ORW
Green Pond	Entire pond to outlet in Montague and those tributaries thereto		A	PWS ORW
Lake Pleasant	Entire lake to outlet in Montague and those tributaries thereto		A	PWS ORW
Roberts Meadow Reservoir	Entire reservoir to outlet in Northampton and those tributaries thereto		A	PWS ORW
Mountain Street Reservoir	Entire reservoir to outlet in Williamsburg and those tributaries thereto		A	PWS ORW

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TABLE 7
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Unnamed Reservoir (Northampton Reservoir [New], Ryans Reservoir)	Entire reservoir to outlet in Whately and those tributaries thereto		A	PWS ORW
West Whately Reservoir (Northampton Reservoir [Old])	Entire reservoir to outlet in Whately and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Louisiana Brook Reservoir, Grandin Reservoir, Upper Reservoir)	Entire reservoir to outlet in Northfield and those tributaries thereto		A	PWS ORW
Lithia Springs Reservoir	Entire reservoir to outlet in South Hadley and those tributaries thereto		A	ORW
Unquommonk Brook Reservoir	Entire reservoir to outlet in Williamsburg and those tributaries thereto		A	ORW
Unnamed Reservoir (Roaring Brook Reservoir)	Entire reservoir to outlet in Conway and those tributaries thereto		A	PWS ORW
Conway Reservoir	Entire reservoir and those tributaries thereto		A	PWS ORW
Mill River	From Walnut Street Bridge, Springfield, to confluence with the Connecticut River, Springfield		B	CSO
Adams Brook	Source in Shutesbury to confluence with Fort River, Amherst		B	Cold Water

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4.06: continued

TABLE 7
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Bradford Brook	Source to confluence with East Branch Mill River, Williamsburg		B	Cold Water
Broad Brook	Entire length (from source in Holyoke to the inlet of Nashawannuck Pond, Easthampton)		B	Cold Water
Buffam Brook (Buffum Brook)	Entire length, Pelham		B	Cold Water
Couch Brook	Source in Leyden to confluence with Fall River, Bernardston		B	Cold Water
Day Brook	Source in Williamsburg to confluence with unnamed tributary to the Mill River, Northampton (such unnamed tributary flowing from the confluence of Roberts Meadow and Clark brooks, Northampton, to the Mill River, Northampton)		B	Cold Water
Dean Brook	Entire length, Shutesbury		A	Cold Water PWS ORW
Dry Brook	Source in Bernardston to confluence with Connecticut River, Gill		B	Cold Water
Esther Brook	Source in Whately to confluence with Mill River, Whately		B	Cold Water

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TABLE 7
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Fall River	From the MA-VT state line, Bernardston, to confluence with the Connecticut River, Greenfield		B	Cold Water
Fourmile Brook	Entire length, Northfield		B	Cold Water
Gates Brook	Entire length, Pelham		B	Cold Water
Grass Hill Brook	Source in Whately to confluence with Beaver Brook, Williamsburg		B	Cold Water
Goddard Brook	Source in Montague to confluence with Sawmill River, Montague		B	Cold Water
Hearthstone Brook	Source in Pelham to confluence with Adams Brook, Amherst		B	Cold Water
Hannigan Brook	Source in Montague to inlet of Lake Pleasant, Montague		A	Cold Water PWS ORW
Harris Brook	Source in Pelham to the outlet of Intake Reservoir Dam, Pelham (inclusive of the Hawley Reservoir and the Amethyst Brook Hawley/Hill PWS Intake, also listed separately)		A	Cold Water PWS ORW
	From the outlet of Intake Reservoir Dam, Pelham to confluence with Amethyst Brook, Pelham		B	Cold Water

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4.06: continued

TABLE 7
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Joe Wright Brook	Entire length, Williamsburg		B	Cold Water
Manhan River, North Branch	Source in Chesterfield to confluence with the Manhan River		B	Cold Water
Meekin Brook	Source in Chesterfield to confluence with West Branch Mill River, Williamsburg		B	Cold Water
Mill Brook	Entire length (from the outlet of Stevens Swamp Dam, Warwick, to confluence with the Connecticut River, Northfield)		B	Cold Water
Mill River, East Branch	Source in Williamsburg to confluence with the Mill River, Williamsburg		B	Cold Water
Mill River, West Branch	From East St., Goshen, to confluence with Meekin Brook, Williamsburg		B	Cold Water
Millers Brook	Source in Northfield to confluence with Connecticut River, Northfield		B	Cold Water
Mohawk Brook	Source in Sunderland to confluence with Connecticut River, Hadley		B	Cold Water
Moose Brook	Entire length, Southampton		B	Cold Water
Mountain Brook	Source in Leverett to confluence with Doolittle Brook, Leverett		B	Cold Water

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TABLE 7
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Nurse Brook	Entire length, Shutesbury		A	Cold Water PWS ORW
Spaulding Brook	Source in Montague to confluence with Sawmill River, Montague		B	Cold Water
Red Brook	Source in Wendell to confluence with Sawmill River, Leverett		B	Cold Water
Rice Brook	Entire length, Westhampton		B	Cold Water
Roaring Brook	Source in Conway to South Deerfield Water Supply Dam, Whately		A	Cold Water PWS ORW
	From South Deerfield Water Supply Dam, Whately, to confluence with Mill River, Whately		B	Cold Water
Rogers Brook	Entire length, Goshen		B	Cold Water
Sacket Brook	Entire length, Montgomery		B	Cold Water
Sawmill River	From Dudleyville Rd., Leverett, to confluence with the Connecticut River, Montague		B	Cold Water
Scarboro Brook	Entire length, Belchertown		B	Cold Water
Schneelock Brook	Entire length, Springfield		B	Cold Water

4.06: continued

TABLE 7
CONNECTICUT RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Schoolhouse Brook	Entire length, West Springfield/Holyoke		B	Cold Water
Shattuck Brook	Entire length, Leyden/Bernardston		B	Cold Water
Sodom Brook	Entire length, Westhampton		B	Cold Water
Tripple Brook	Entire length, Southampton		B	Cold Water
West Brook	Entire length (from the outlet of West Whately Reservoir Dam, Whately, to confluence with the Mill River, Hatfield)		B	Cold Water
Williams Brook	Source in Wendell to confluence with Sawmill River, Leverett		B	Cold Water

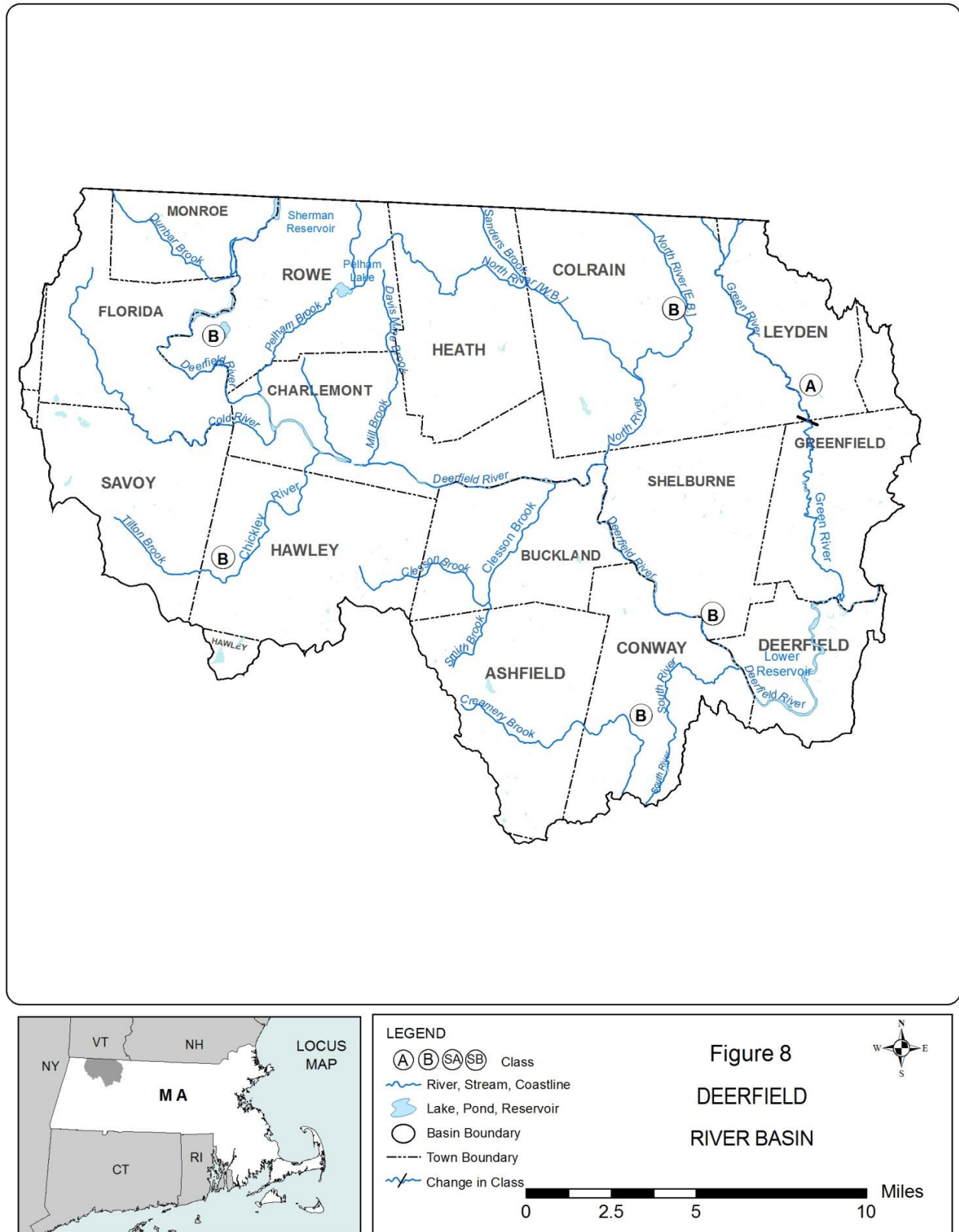
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*Acronyms:

CSO = Combined Sewer Overflow
 ORW = Outstanding Resource Water
 PWS = Public Water Supply

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4.06: continued



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4.06: continued

TABLE 8 DEERFIELD RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Deerfield River	From the MA-VT state line, Monroe/Rowe, to confluence with the North River, Charlemont	42.9 - 18.2	B	Cold Water
	From confluence with the North River, Charlemont, to confluence with the Connecticut River, Greenfield/Deerfield	18.2 - 0.0	B	Warm Water
West Branch North River	From source in Heath to confluence with the North River, Colrain		B	Cold Water High Quality Water
East Branch North River	From the MA-VT state line, Colrain, to confluence with the North River, Colrain		B	Cold Water High Quality Water
North River	From confluence of East and West Branches of the North River, Colrain, to the treatment works discharge, Colrain, located approximately 0.3 river miles south of the Adamsville Road and Route 112 intersection	3.1 - 2.7	B	Cold Water High Quality Water
	From the treatment works discharge, Colrain, located approximately 0.3 river miles south of the Adamsville Road and Route 112 intersection, to confluence with the Deerfield River, Charlemont/Shelburne/Buckland	2.7 - 0.0	B	Cold Water

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 8
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Green River	From the MA-VT state line to Green River water supply intake and tributaries thereto	14.5 – 8.4	A	Cold Water PWS High Quality Water ORW
	From Green River water supply intake to the Greenfield POTW's former discharge	8.4 - 0.6	B	Cold Water High Quality Water
	From the Greenfield POTW's former discharge to confluence with the Deerfield River	0.6 - 0.0	B	Cold Water
Highland Springs Reservoir (Upper Reservoir)	Entire reservoir to outlet in Ashfield and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Mountain Spring Reservoir or Mountain Brook Reservoir)	Entire reservoir to outlet in Colrain and those tributaries thereto		A	PWS ORW
Greenfield Reservoir (Leyden Glen Reservoir, Glen Brook Upper Reservoir)	Entire reservoir to outlet in Leyden and those tributaries thereto		A	PWS ORW
Fox Brook Reservoir	Entire reservoir to outlet in Colrain and those tributaries thereto		A	PWS ORW

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 8
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Phelps Brook Reservoir	Entire reservoir to outlet in Monroe and those tributaries thereto		A	PWS ORW
Albee Brook	Entire length, Hawley/Charlemont		B	Cold Water
Avery Brook	Entire length, Heath/Charlemont		B	Cold Water
Bear River	Entire length, Ashfield/Conway		B	Cold Water
Bear Swamp Outflow	Entire length, Rowe		B	Cold Water
Black Brook	Entire length, Savoy		B	Cold Water
Bozrah Brook	Entire length, Hawley/Charlemont		B	Cold Water
Brown Brook	Source in Savoy to confluence with Chickley River, Savoy		B	Cold Water
Burrington Brook	Source in Heath to confluence with West Branch Brook, Heath		B	Cold Water
Cary Brook	Source in Colrain to confluence with West Branch North River, Colrain		B	Cold Water
Cascade Brook	Source in Florida to confluence with Deerfield River, Florida		B	Cold Water

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 8
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Chapel Brook	Entire length, Ashfield/Conway		B	Cold Water
Chickley River	Entire length (from source in Savoy to confluence with the Deerfield River, Charlemont)		B	Cold Water
Clesson Brook	Source in Hawley to confluence with Deerfield River, Buckland		B	Cold Water
Cold River	Entire length (from source in Florida to confluence with the Deerfield River, Charlemont)		B	Cold Water
Cooley Brook	Source in Hawley to confluence with Clesson Brook, Buckland		B	Cold Water
Creamery Brook	Entire length, Ashfield		B	Cold Water
Dickenson Brook	Source in Heath to confluence with West Branch Brook, Heath		B	Cold Water
Drakes Brook	Entire length (from source in Buckland to confluence with Bear River, Conway)		B	Cold Water
Dunbar Brook	From the MA-VT state line, Florida, to confluence with the Deerfield River, Monroe		B	Cold Water
Fife Brook	Entire length, Monroe/Florida		B	Cold Water

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4.06: continued

TABLE 8
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
First Brook	Entire length, Buckland		B	Cold Water
Foundry Brook	Source in Colrain to confluence with East Branch North River, Colrain		B	Cold Water
Fuller Brook	Source in Hawley to confluence with Chickley River, Hawley		B	Cold Water
Hartwell Brook	Source in Charlemont to confluence with Deerfield River, Charlemont		B	Cold Water
Hawkes Brook	Entire length, Shelburne		B	Cold Water
Hinsdale Brook	From source in Colrain to confluence with Punch Brook, Greenfield		B	Cold Water
Houghton Brook	Source in Colrain to confluence with North River, Colrain		B	Cold Water
Hunt Brook	Source in Florida to confluence with Fife Brook, Florida		B	Cold Water
Johnny Bean Brook	Source in Conway to confluence with South River, Conway		B	Cold Water
Kinsman Brook	Entire length, Heath		B	Cold Water
Manning Brook	Source in Florida to confluence with Cold River, Florida		B	Cold Water

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

TABLE 8
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Mccard Brook	Source in Leyden to confluence with Mill Brook, Greenfield		B	Cold Water
Mill Brook (2)	Entire length, Heath/Charlemont		B	Cold Water
Mill Brook (3)	Entire length, Hawley		B	Cold Water
Miller Brook	Source in Colrain to confluence with Borden Brook, Colrain		A	Cold Water PWS ORW
Maxwell Brook	Entire length, Rowe/Charlemont		B	Cold Water
North Brook	Entire length, Hawley		B	Cold Water
Nye Brook	Source in Conway to confluence with Poland Brook, Conway		B	Cold Water
Pelham Brook	Entire length, Rowe/Charlemont		B	Cold Water
Poland Brook	Entire length, Conway		B	Cold Water
Reed Brook	Entire length, Florida		B	Cold Water
Rice Brook	Entire length, Rowe/Charlemont		B	Cold Water
Ruddock Brook	Source in Hawley to confluence with Clesson Brook, Buckland		B	Cold Water

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4.06: continued

TABLE 8
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Second Brook	Entire length, Buckland		B	Cold Water
Sheldon Brook	Source in Shelburne to confluence with Deerfield River, Deerfield		B	Cold Water
Smead Brook	Source in Greenfield to confluence with Wheeler Brook, Greenfield		B	Cold Water
Smith Brook	Source in Florida to confluence with the Deerfield River (inlet to Lower Reservoir), Florida		B	Cold Water
South River	Source to confluence with Johnny Bean Brook		B	Cold Water
Stewart Brook	Source in Colrain to confluence with Hinsdale Brook, Shelburne		B	Cold Water
Tannery Brook	Entire length, Savoy		B	Cold Water
Taylor Brook	Entire length, Rowe		B	Cold Water
Third Brook	Entire length, Buckland		B	Cold Water
Todd Brook	Entire length, Charlemont		B	Cold Water
Unnamed Stream (within Hog Hollow)	Entire length, Buckland		B	Cold Water
West Branch Brook	From the MA-VT state line, Heath, to confluence with West Branch North River, Heath		B	Cold Water

4.06: continued

TABLE 8
DEERFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Wilder Brook	Entire length, Heath/Charlemont		B	Cold Water
Willis Brook	Entire length, Heath/Charlemont		B	Cold Water
Wheatherby Brook	Source in Hawley to confluence with Deerfield River, Charlemont		B	Cold Water
Wheeler Brook	From MA-NH state line, Rowe, to inlet of Sherman Reservoir, Rowe		B	Cold Water
Whitcomb Brook	Entire length, Florida		B	Cold Water
White Brook	Source in Florida to confluence with Cold River, Florida		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

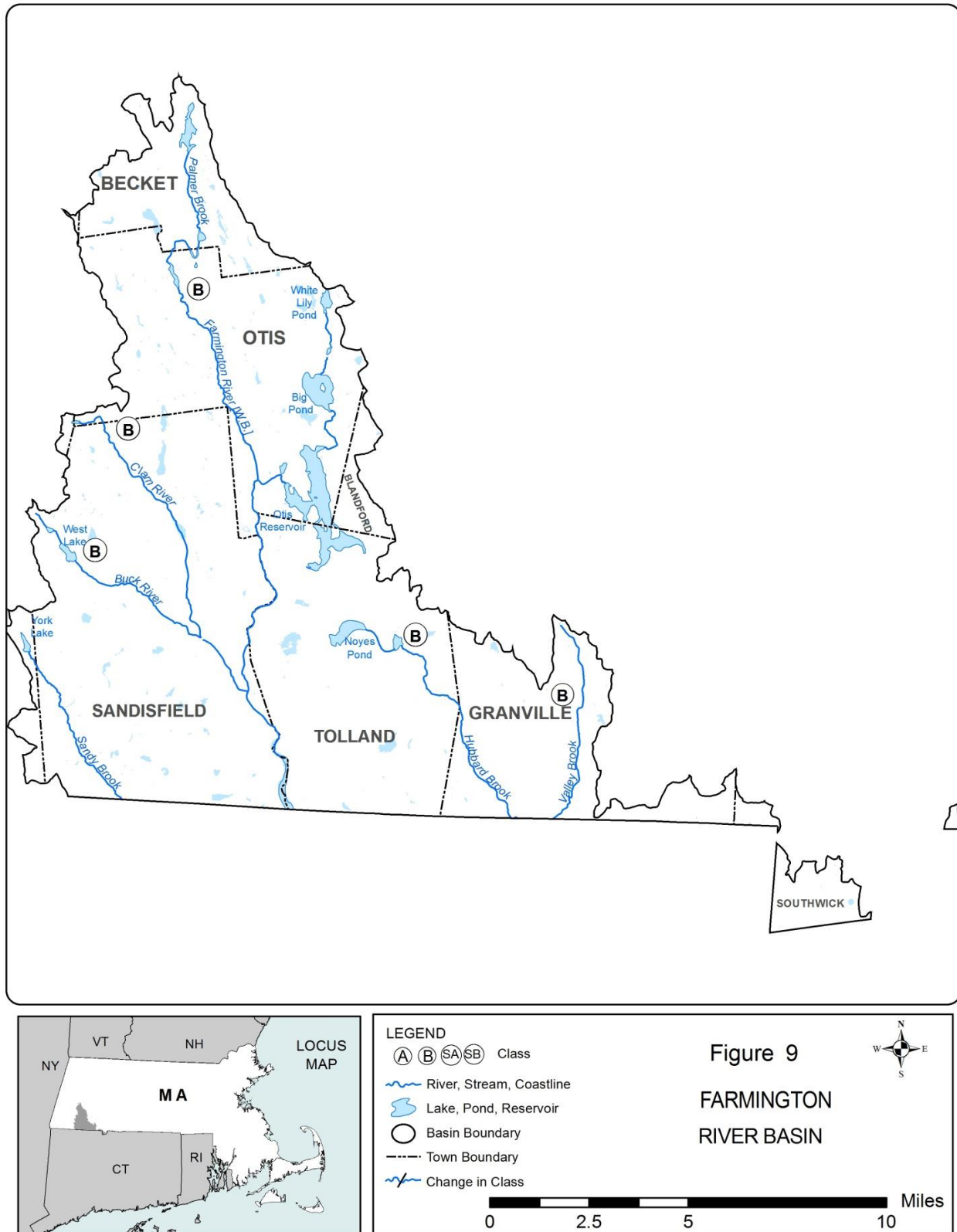
*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



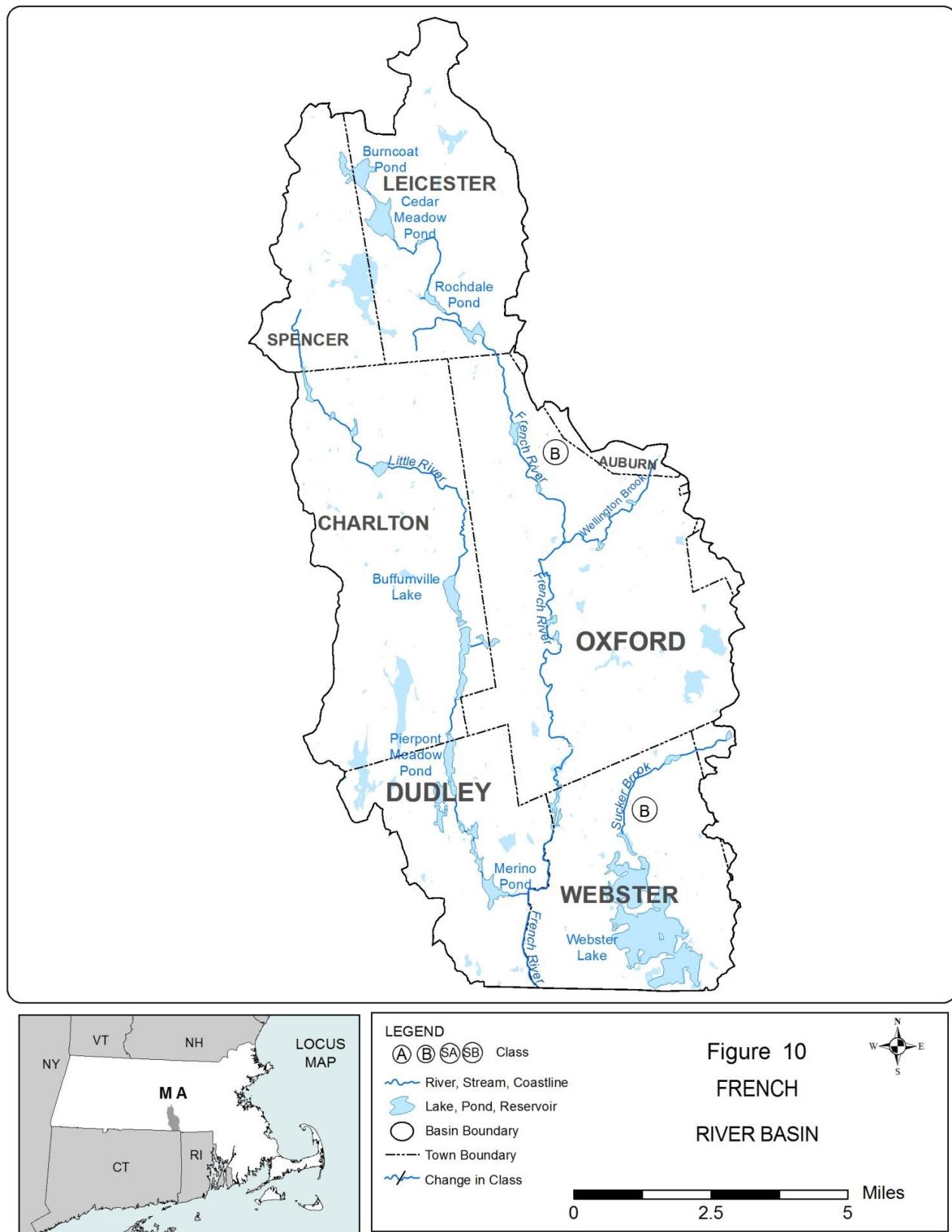
4.06: continued

TABLE 9
FARMINGTON RIVER BASIN

<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT‡</u>	<u>CLASS</u>	<u>QUALIFIERS</u>
Surface waters within the Farmington River Basin	All surface waters with the exception of those that may be designated otherwise		B	Cold Water High Quality Water

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



4.06: continued

TABLE 10
FRENCH RIVER BASIN

<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT†</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
French River	From the outlet of Greenville Pond, Leicester, to the MA-CT state line, Dudley	17.8 – 0.0	B	Warm Water
Unnamed tributary to Town Meadow Brook	From the outlet of Sargent Pond to the inlet of Dutton Pond	0.5 – 0.0	B	Warm Water High Quality Water
Town Meadow Brook	From the outlet of Dutton Pond to the inlet of Greenville Pond	1.9 – 0.0	B	Warm Water
Henshaw Pond	Entire pond to outlet in Leicester and those tributaries thereto		A	PWS ORW

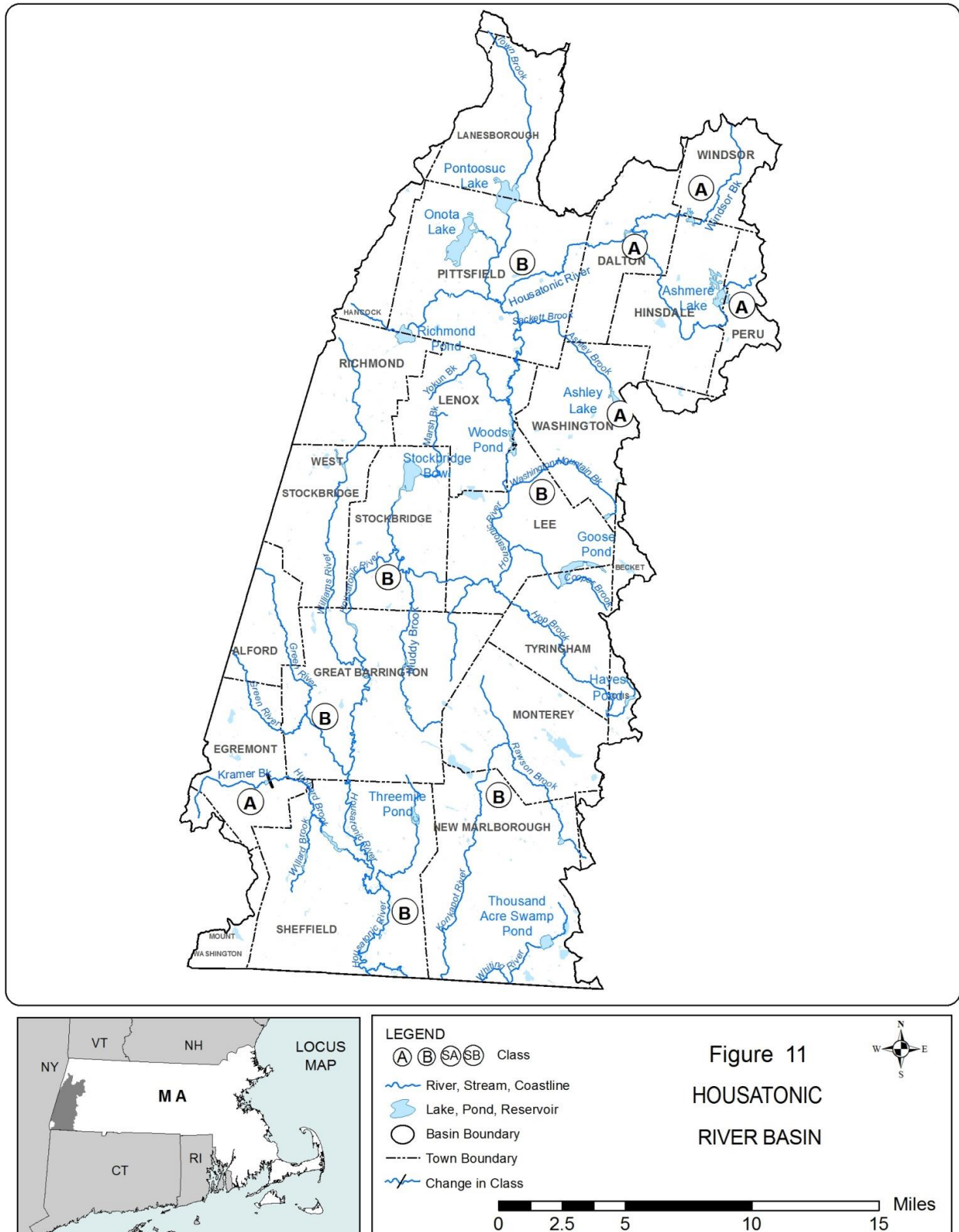
*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

† Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 11
HOUSATONIC RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
East Branch Housatonic River	Source in Washington to outlet of Center Pond, Dalton	13.6 - 5.5	B	Cold Water High Quality Water
	From outlet of Center Pond, Dalton to confluence with the Housatonic River, Pittsfield	5.5 - 0.0	B	Warm Water
Housatonic River	From confluence of the Southwest and West Branches Housatonic River, Pittsfield, to Pittsfield POTW discharge	55.4 - 50.9	B	Warm Water
	From Pittsfield POTW discharge to the MA-CT state line, Sheffield	50.9 - 0.0	B	Warm Water
West Branch Housatonic River	Entire length, Pittsfield	36.0 - 0.0	B	Cold Water High Quality Water
Southwest Branch Housatonic River	Entire length, Pittsfield	34.1 - 0.0	B	Cold Water High Quality Water
Goose Pond Brook	Entire length, Lee/Tyringham	2.3 - 0.0	B	Cold Water High Quality Water
Williams River	Entire length, Great Barrington	10.0 - 0.0	B	Cold Water High Quality Water
Green River	Entire length, Alford, Egremont, and Great Barrington	9.5 - 0.0	B	Cold Water High Quality Water

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TABLE 11 HOUSATONIC RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Hubbard Brook	Entire length, Egremont and Sheffield	6.6 - 0.0	B	Cold Water High Quality Water
Fenton Brook	Entire length, Egremont	2.9 - 0.0	B	Cold Water High Quality Water
Karner Brook (includes unnamed reservoir (Karner Brook Reservoir))	Source to unnamed reservoir (Karner Brook Reservoir) PWS intake and those tributaries thereto, Mount Washington/Egremont ²		A	PWS ORW
	From unnamed reservoir (Karner Brook Reservoir) PWS intake to the inlet of Mill Pond, Egremont ²		B	ORW
East Mountain Reservoir	Entire reservoir to outlet in Great Barrington and those tributaries thereto		A	PWS ORW
Long Pond	Entire pond to outlet in Great Barrington and those tributaries thereto		A	PWS ORW
Belmont Reservoir	Entire reservoir to outlet in Hinsdale and those tributaries thereto		A	PWS ORW
Lower Reservoir (Coddington Brook Lower Reservoir, Vanetti Reservoir)	Entire reservoir to outlet in Lee and those tributaries thereto		A	PWS ORW
Leahey Reservoir (Coddington Brook Upper Reservoir)	Entire reservoir to outlet in Lee and those tributaries thereto		A	PWS ORW

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4.06: continued

TABLE 11 HOUSATONIC RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Lenox Reservoir (Lower Root Reservoir)	Entire reservoir to outlet in Lenox and those tributaries thereto		A	PWS ORW
Lenox Reservoir (Upper Root Reservoir)	Entire reservoir to outlet in Lenox and those tributaries thereto		A	PWS ORW
Ashley Lake (Ashley Lake Reservoir)	Entire lake to outlet in Washington and those tributaries thereto		A	PWS ORW
Sandwash Reservoir	Entire reservoir to outlet in Washington and those tributaries thereto		A	PWS ORW
Farnham Reservoir	Entire reservoir to outlet in Washington and those tributaries thereto		A	PWS ORW
School House Lake	Entire lake to outlet in Washington and those tributaries thereto (inclusive of Washington Mountain Brook upstream of the lake)		A	PWS ORW
Cleveland Brook Reservoir (Cleveland Reservoir)	Entire reservoir to outlet in Hinsdale and those tributaries thereto		A	PWS ORW
Lake Averic (Echo Lake, Mountain Mirror Lake)	Entire lake to outlet in Stockbridge and those tributaries thereto		A	PWS ORW
Egypt Pond (Egypt Brook Reservoir)	Entire pond to outlet in Dalton and those tributaries thereto		A	PWS ORW

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TABLE 11 HOUSATONIC RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Windsor Reservoir (Cady Brook Reservoir)	Entire reservoir to outlet in Windsor and those tributaries thereto		A	PWS ORW
Upper Sackett Reservoir (Sackett Brook Reservoir)	Entire reservoir to outlet in Hinsdale and those tributaries thereto		A	PWS ORW
Unnamed reservoir (Anthony Brook Reservoir)	The entire unnamed reservoir (known as Anthony Brook Reservoir) to outlet in Dalton and those tributaries thereto (inclusive of Anthony Pond)		A	PWS ORW Cold Water
	From the outlet of unnamed reservoir (Anthony Brook Reservoir), Dalton, to confluence with Wahconah Falls Brook, Dalton		B	Cold Water
Ashley Reservoir (Ashley Intake Reservoir)	Entire reservoir to outlet in Washington and those tributaries thereto		A	PWS ORW
Sandisfield Road Reservoir	Entire reservoir and those tributaries thereto		A	PWS ORW
Alford Brook	Source in West Stockbridge to confluence with Seekonk Brook, Alford		B	Cold Water
Barton Brook	Source in Dalton to confluence with East Branch Housatonic River, Pittsfield		B	Cold Water
Bear Rock Stream	Source in Mount Washington to confluence with Schenob Brook, Sheffield		B	Cold Water

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TABLE 11 HOUSATONIC RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS*</u>
Brattle Brook	Source in Dalton to confluence with East Branch Housatonic River, Pittsfield		B	Cold Water
Churchill Brook	Entire length, Lanesboro/Pittsfield		B	Cold Water
Cleveland Brook	From the outlet of Cleveland Brook Reservoir, Hinsdale, to confluence with East Branch Housatonic River, Dalton		B	Cold Water
Commons Brook	Source in Lee to confluence with Coddington Brook, Lee		A	Cold Water PWS ORW
Crystal Brook	Source in Tyringham to confluence with Hop Brook, Tyringham		B	Cold Water
Dry Brook	Source in Mount Washington to confluence with Schenob Brook, Sheffield		B	Cold Water
Hathaway Brook	Source in Washington to confluence with Sackett Brook, Dalton		B	Cold Water
Muddy Brook	Source in Great Barrington to confluence with Stony Brook, Great Barrington		B	Cold Water
Race Brook	Source in Mount Washington to confluence with Dry Brook, Sheffield		B	Cold Water

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TABLE 11 HOUSATONIC RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Russo Brook	Source in Hinsdale to confluence with East Branch Housatonic River, Hinsdale		B	Cold Water
Swann Brook	Source in Monterey to confluence with Konkapot River, Monterey		B	Cold Water
Sykes Brook	Source in Pittsfield to confluence with Housatonic River, Pittsfield		B	Cold Water
Tom Ball Brook	Source in West Stockbridge to confluence with Alford Brook, Alford		B	Cold Water
Tyler Brook	Entire length, Windsor (Tyler Brook is a tributary to Windsor Brook which flows into Windsor Reservoir and ultimately to Cleveland Reservoir)		A	Cold Water PWS ORW
Welch Brook	Entire length, Hinsdale ³		B	Cold Water
Weston Brook	Source in Windsor to confluence with Wahconah Falls Brook, Dalton		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Karner Brook Watershed ACEC

³Note that all or a portion of these surface waters are within the Hinsdale Flats Watershed ACEC

*Acronyms:

ACEC = Area of Critical Environmental Concern

ORW = Outstanding Resource Water

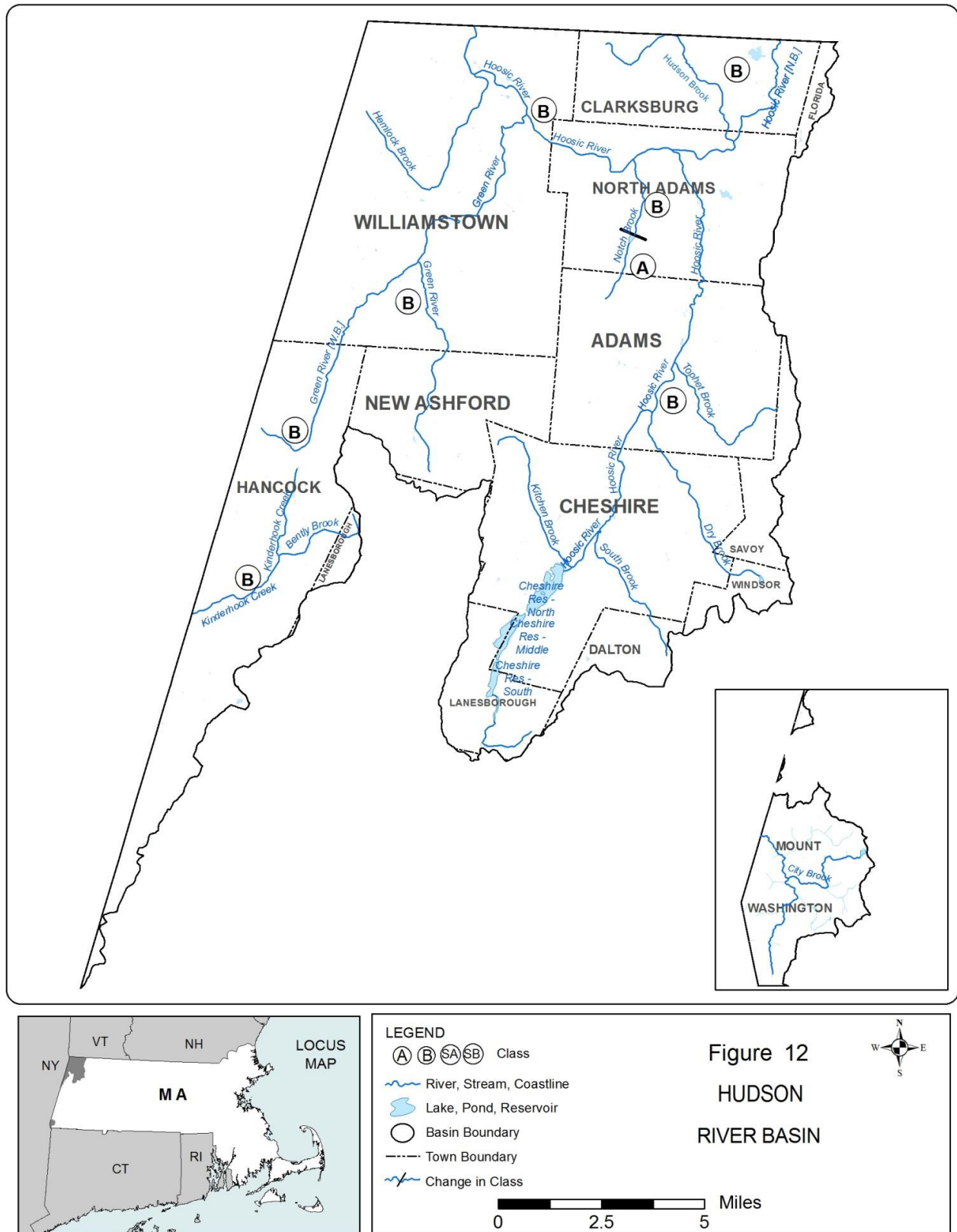
PWS = Public Water Supply

4.06: continued

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TABLE 12
HUDSON RIVER BASIN

<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT‡</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
North Branch Hoosic River	From the MA-VT state line to confluence with the Hoosic River (South Branch Hoosic River)	9.9 - 0.0	B	Cold Water High Quality Water
Hoosic River (South Branch Hoosic River)	From the outlet of Cheshire Reservoir to Adams POTW discharge	23.5 - 15.4	B	Cold Water High Quality Water
	From Adams POTW discharge to confluence with the North Branch Hoosic River	15.4 - 10.3	B	Warm Water
Hoosic River	Confluence of North Branch Hoosic River and Hoosic River (South Branch Hoosic River) to MA-VT state line	10.3 - 0.0	B	Warm Water
Green River	Entire length, New Ashford/Williamstown	10.8 - 0.0	B	Cold Water
Basset Brook Reservoir	Entire reservoir to outlet in Cheshire and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Kitchen Brook Reservoir)	Entire reservoir to outlet in Cheshire and those tributaries thereto		A	PWS ORW
Notch Reservoir	Entire reservoir to outlet in North Adams and those tributaries thereto		A	PWS ORW
Mt. Williams Reservoir	Entire reservoir to outlet in North Adams and those tributaries thereto		A	PWS ORW

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TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Williamstown Reservoir (Sherman Springs Reservoir)	Entire reservoir to outlet in Williamstown and those tributaries thereto		A	PWS ORW
Thunder Brook	Entire length in Cheshire and those tributaries thereto		A	ORW
Bashbish Brook	Source to the MA-NY state line, Mount Washington		B	Cold Water High Quality Water
Bear Swamp Brook	Source in Clarksburg to confluence with Hudson Brook, Clarksburg		B	Cold Water
Birch Brook	Source in Williamstown to confluence with Buxton Brook, Williamstown		B	Cold Water
Buxton Brook	Entire length, Williamstown		B	Cold Water
East Branch Green River	Source in New Ashford to confluence with Green River, New Ashford		B	Cold Water
Gore Brook	Source in Dalton to inlet of Cheshire Reservoir, Cheshire		B	Cold Water
Hemlock Brook	From the MA-NY state line to confluence with the Hoosic River, Williamstown		B	Cold Water

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TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Hopper Brook	Source in Williamstown to confluence with Green River, Williamstown		B	Cold Water
Hoxie Brook	Source in Adams to confluence with Hoosic River, Adams		B	Cold Water
Hunterfield Brook	Source in Clarksburg to confluence with North Branch Hoosic River, North Adams		B	Cold Water
Kinderhook Creek	Source to the MA-NY state line, Hancock		B	Cold Water High Quality Water
Kitchen Brook	Source in Cheshire to inlet of unnamed reservoir (Kitchen Brook Reservoir)		A	Cold Water PWS ORW
	From Kitchen Brook Dam [outlet of unnamed reservoir (Kitchen Brook Reservoir)] to confluence with South Branch Hoosic River, Cheshire		B	Cold Water
McDonald Brook	Entire length, Windsor/Cheshire		B	Cold Water
Miller Brook	Source in Adams to confluence with Tophet Brook, Adams		B	Cold Water
Mitchell Brook	Source in New Ashford to confluence with East Branch Green River, New Ashford		B	Cold Water

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TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Money Brook	Source in Williamstown to confluence with Hopper Brook, Williamstown		B	Cold Water
Notch Brook	Source in Adams to inlet of Notch Reservoir, North Adams		A	Cold Water PWS ORW
	From Notch Reservoir Dam (outlet of Notch reservoir) to confluence with Hoosic River, North Adams		B	Cold Water
Patton Brook	Source in Savoy to confluence with Tophet Brook, Adams		B	Cold Water
Penniman Brook	Source in Cheshire to confluence with Hoosic River, Cheshire		B	Cold Water
Pettibone Brook	Source in Cheshire to inlet of Cheshire Reservoir, Lanesborough		B	Cold Water
Reed Brook	Source in Adams to confluence with Tophet Brook, Adams		B	Cold Water
South Brook	Source in Dalton to confluence with Hoosic River and South Branch Hoosic River, Cheshire		B	Cold Water

4.06: continued

TABLE 12
HUDSON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Sherman Brook	Source to confluence with Hoosic River, North Adams		B	Cold Water
Sweet Brook	Source in Williamstown to confluence with Hemlock Brook, Williamstown		B	Cold Water
Tunnel Brook	Entire length, North Adams		B	Cold Water
Wheeler Brook	Source in Clarksburg to confluence with Hunterfield Brook, Clarksburg		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

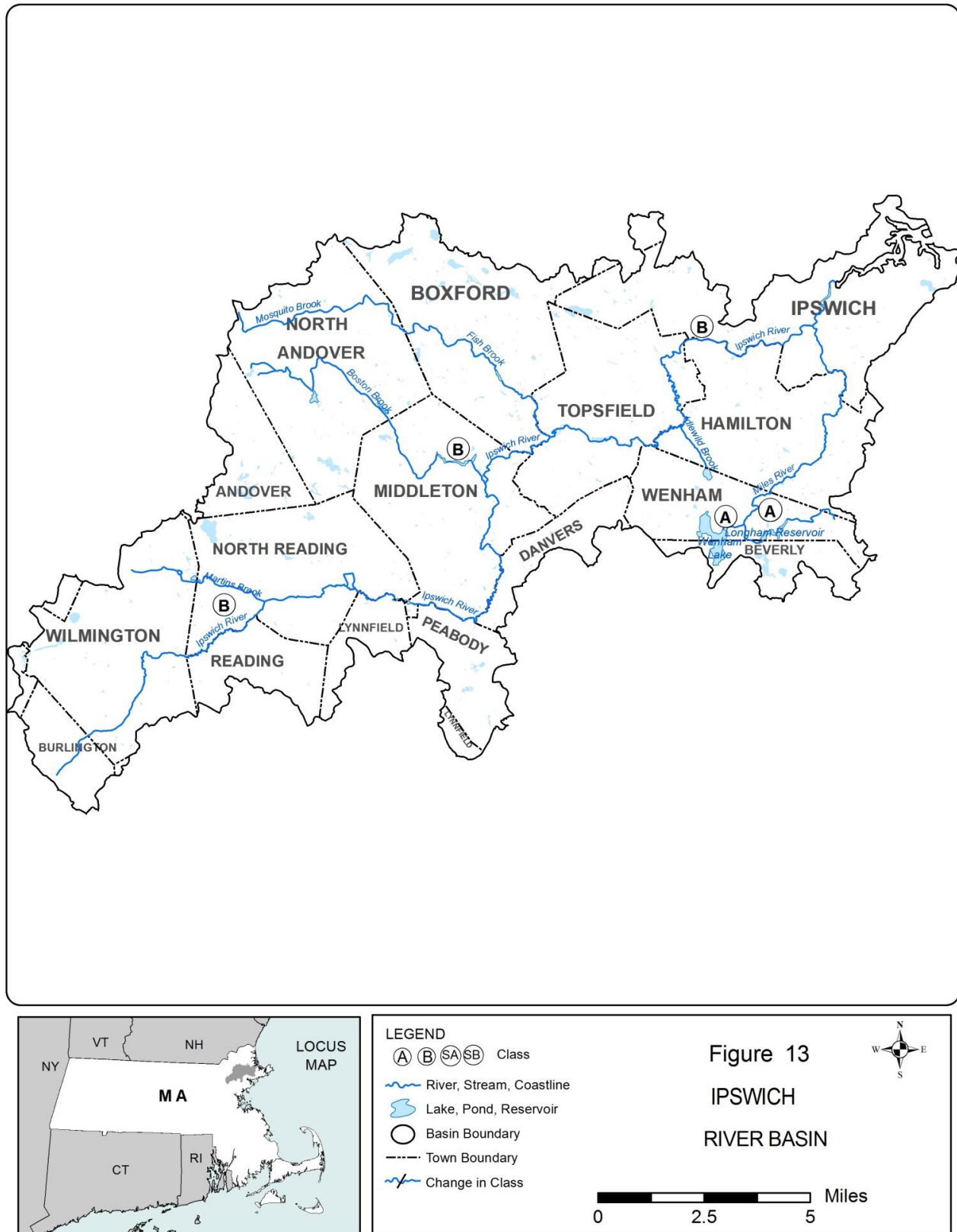
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4.06: continued

TABLE 13 IPSWICH RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Ipswich River	Source to the Salem Beverly Waterway Canal	41.1 - 16.4	B	Treated Water Supply Warm Water High Quality Water
	From the Salem Beverly Waterway Canal to the tidal portion	16.4 - 4.5	B	Warm Water High Quality Water
	Tidal portion and those tributaries thereto	4.5 - 0.0	SA	Shellfishing
Middleton Pond	Entire pond to outlet in Middleton and those tributaries thereto		A	PWS ORW
Swan Pond	Entire pond to outlet in North Reading and those tributaries thereto		A	PWS ORW
Mill Pond Reservoir	Entire reservoir to outlet in Burlington and those tributaries thereto		A	PWS ORW
Longham Reservoir	Entire reservoir to outlet in Wenham and those tributaries thereto		A	PWS ORW
Wenham Lake	Entire lake to outlet in Wenham and those tributaries thereto		A	PWS ORW
Putnamville Reservoir	Entire reservoir to outlet in Danvers and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 13
IPSWICH RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Suntaug Lake	Entire lake to outlet in Lynn and Peabody and those tributaries thereto		A	PWS ORW
Winona Pond	Entire pond to outlet in Peabody and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Emerson Brook Reservoir)	Entire reservoir to outlet in Middleton and those tributaries thereto		A	PWS ORW
Fox Creek	Portion in the Great Marsh ACEC†		SA	ORW
Neck Creek	Portion in the Great Marsh ACEC†		SA, B**	ORW
Treadwell Island Creek	Portion in the Great Marsh ACEC†		SA, B**	ORW

¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

ACEC = Area of Critical Environmental Concern

ORW = Outstanding Resource Water

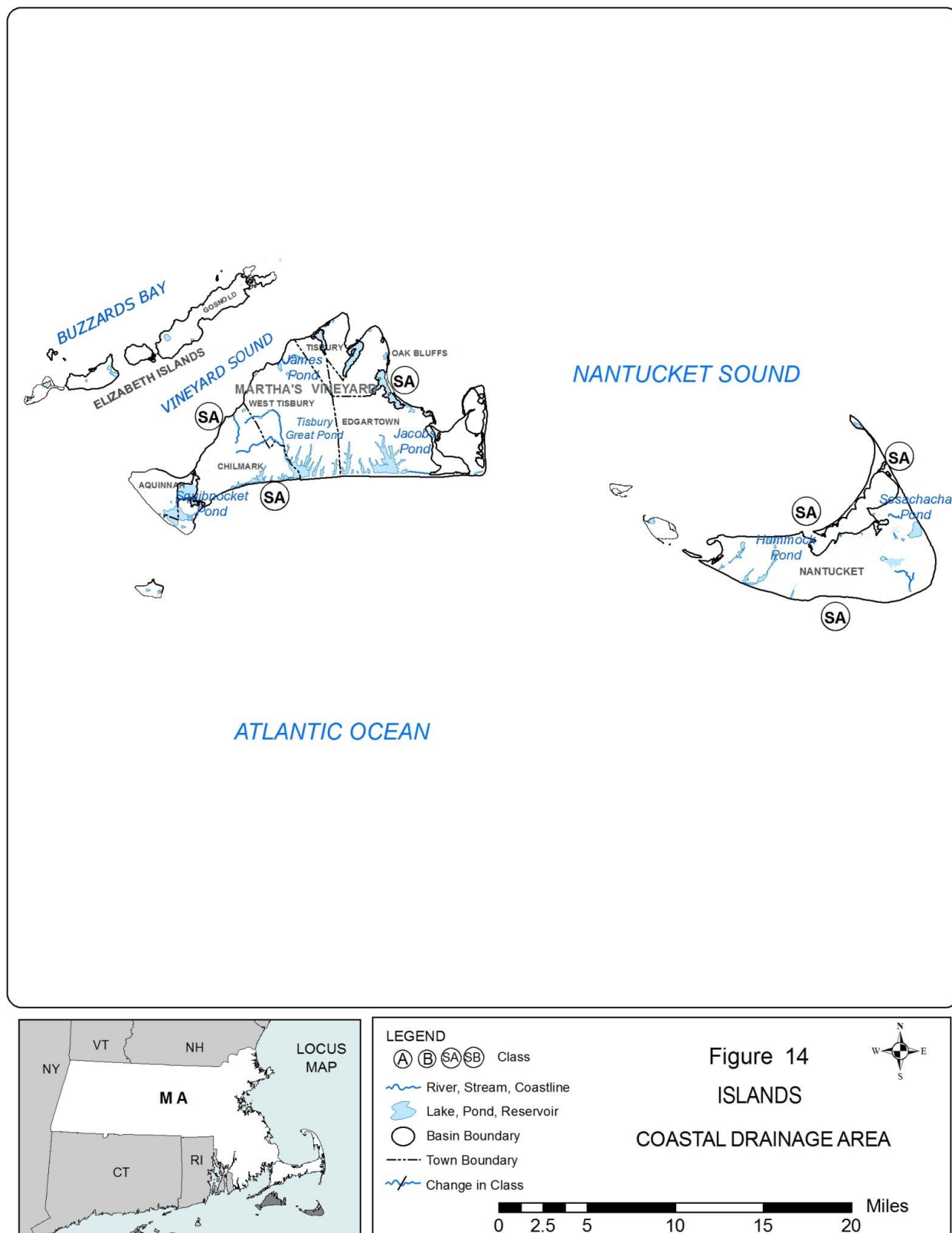
PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

†Formerly the Parker River/Essex Bay ACEC

4.06: continued



4.06: continued

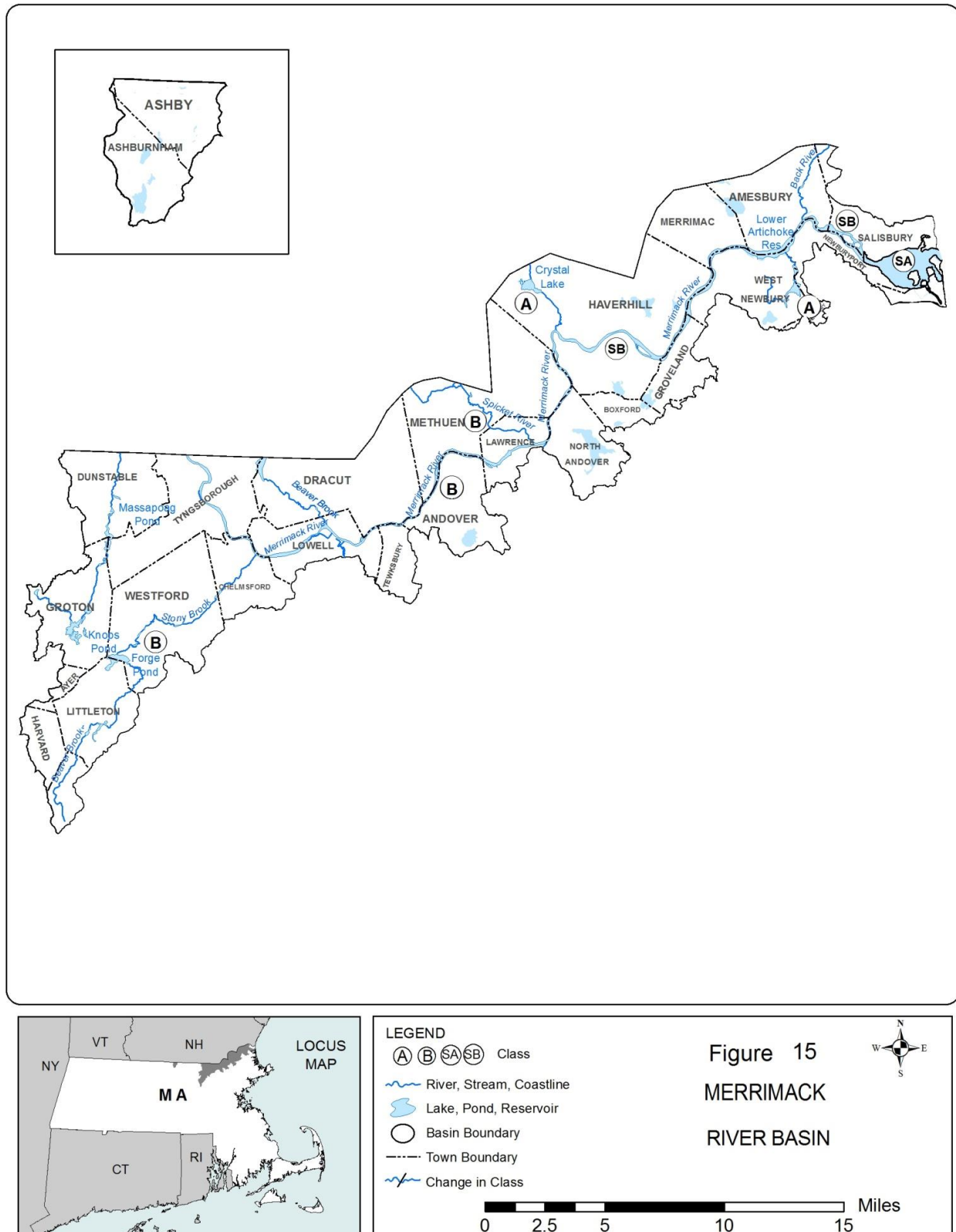
TABLE 14 ISLANDS COASTAL DRAINAGE AREA				
<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT†</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Atlantic Ocean and other surface waters	All surface waters within and adjacent to the Elizabeth Islands subject to the rise and fall of the tide and within 1,000 feet seaward of mean low water		SA	Shellfishing ORW
	All surface waters subject to the rise and fall of the tide, within the off-shore boundaries of the towns within Nantucket and Dukes counties		SA	Shellfishing

† Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

*Acronym:

ORW = Outstanding Resource Water

4.06: continued



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TABLE 15
MERRIMACK RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Merrimack River	From the MA-NH state line to Pawtucket Dam	49.8 - 40.6	B	Warm Water Treated Water Supply CSO
	From Pawtucket Dam to Essex Dam, Lawrence	40.6 - 29.0	B	Warm Water Treated Water Supply CSO
	From Essex Dam, Lawrence to confluence with the Little River, Haverhill	29.0 - 21.9	B	Warm Water CSO
	From confluence with the Little River, Haverhill to the Atlantic Ocean; includes the Back River, Salisbury	21.9 - 0.0	SB	Shellfishing CSO
	The Basin in the Merrimack River Estuary, Newbury and Newburyport		SA	Shellfishing
Stony Brook	From outlet of Forge Pond, Westford to confluence with the Merrimack River, Chelmsford	10.3 - 0.0	B	Warm Water
Beaver Brook	From the MA-NH state line, Dracut, to confluence with the Merrimack River	4.2 - 0.0	B	Cold Water
Spicket River	From the MA-NH state line, Methuen, to the General Street Bridge, Lawrence		B	Warm Water

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4.06: continued

TABLE 15
MERRIMACK RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Spicket River (cont.)	From the General Street Bridge, Lawrence, to confluence with the Merrimack River, Lawrence		B	Warm Water CSO
Little River	From the MA-NH state line, Rosemont, to confluence with the Merrimack River, Haverhill	4.3 - 0.0	B	Warm Water
Cobbler Brook	Source in Merrimac to confluence with the Merrimac River	3.7 - 0.0	B	Cold Water
Powwow River	From outlet of Tuxbury Pond, Amesbury, to inlet of Lake Gardner and those tributaries thereto		A	PWS ORW
	From outlet of Lake Gardner to tidal portion	6.4 - 1.3	B	Warm Water
	Tidal portion	1.3 - 0.0	SB	Shellfishing
Plum Island River	North of High Sandy sand bar ² , Newbury		SA	Shellfishing ORW
Little Pine Island Creek	Entire length ² , Newbury		SA, B**	ORW
Plumbush Creek			SA, B**	ORW
Lake Attitash	Entire lake to outlet in Amesbury and those tributaries thereto		A	PWS ORW
Tuxbury Pond	Entire pond to outlet in Amesbury and those tributaries thereto		A	PWS ORW

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4.06: continued

TABLE 15
MERRIMACK RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Millvale Reservoir	Entire reservoir to outlet in Haverhill and those tributaries thereto		A	PWS ORW
Kenoza Lake	Entire lake to outlet in Haverhill and those tributaries thereto		A	PWS ORW
Crystal Lake	Entire lake to outlet in Haverhill and those tributaries thereto		A	PWS ORW
Haggets Pond	Entire pond to outlet in Andover and those tributaries thereto		A	PWS ORW
Fish Brook	Entire length and those tributaries thereto	4.0 - 0.0	A	PWS ORW
Lake Cochichewick	Entire lake to outlet in North Andover and those tributaries thereto		A	PWS ORW
Artichoke Reservoir (Upper and Lower Artichoke Reservoir)	Entire reservoir to outlet in West Newbury and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Indian Hill Reservoir)	Entire reservoir to outlet in West Newbury and those tributaries thereto		A	PWS ORW
Chadwick Pond (Little Pond)	Entire pond to outlet in Haverhill and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 15
MERRIMACK RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Hoveys Pond (Mitchell Pond, Johnson Pond)	Entire pond to outlet in Boxford and those tributaries thereto		A	PWS ORW
Johnsons Pond	Entire pond to outlet in Groveland and those tributaries thereto		A	PWS ORW
Round Pond (Lake Pentucket)	Entire lake to outlet in Haverhill and those tributaries thereto		A	PWS ORW
Crooked Springs Brook	Source in Chelmsford to confluence with Stony Brook, Chelmsford		B	Cold Water
Reed Brook	Source in Westford to confluence with Stony Brook, Westford		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Great Marsh Area of Critical Environmental Concern (ACEC), formerly Parker River/Essex Bay ACEC

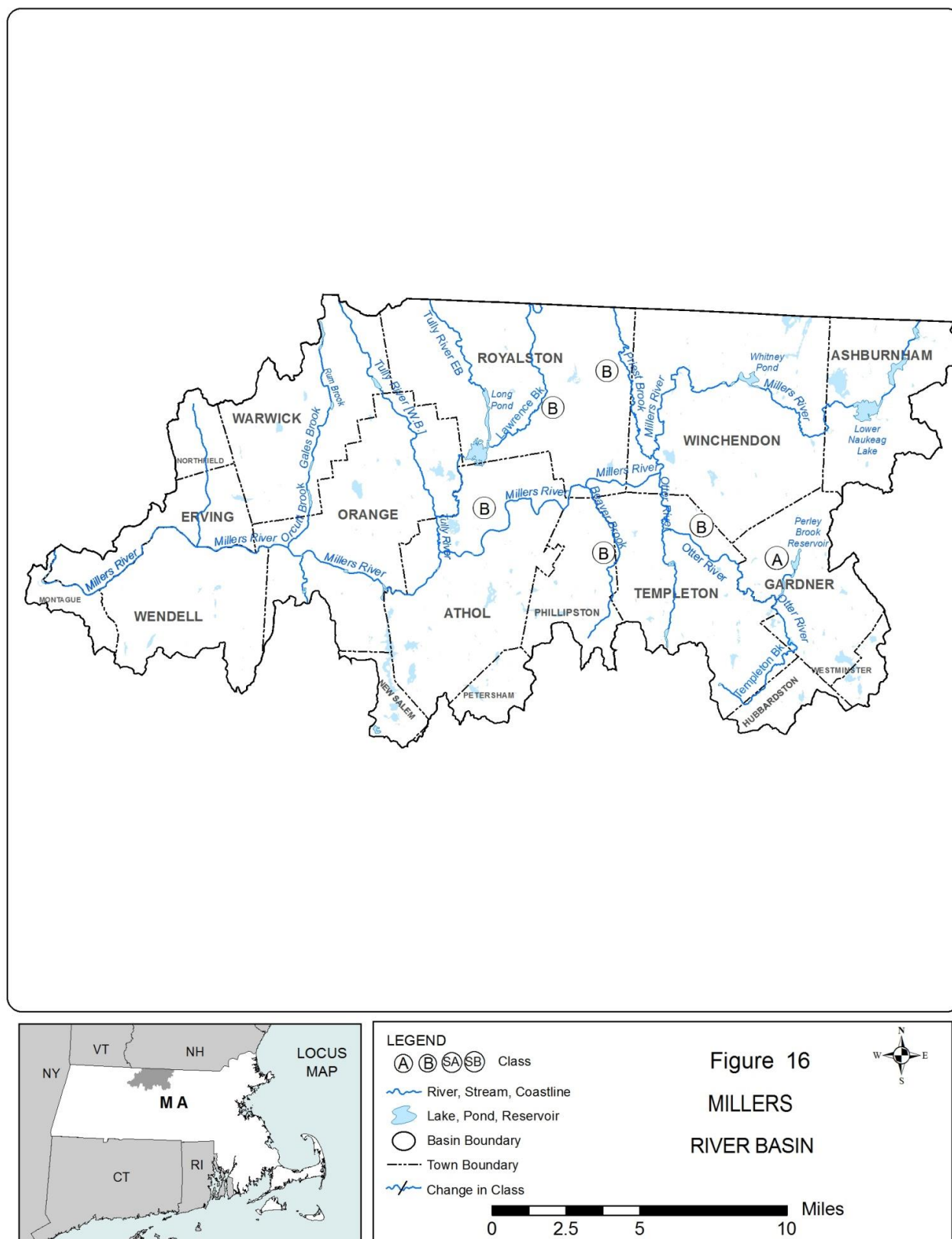
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*Acronyms:

CSO = Combined Sewer Overflow
 ORW = Outstanding Resource Water
 PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

4.06: continued



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4.06: continued

TABLE 16
MILLERS RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Millers River	Source to Winchendon POTW discharge	42.2 - 35.7	B	Cold Water
	From Winchendon POTW discharge to confluence with the Connecticut River	35.7 - 0.0	B	Warm Water
Otter River	Source to Gardner POTW discharge	12.2 - 9.7	B	Aquatic Life
	From Gardner POTW discharge to confluence with the Millers River	9.7 - 0.0	B	Warm Water
Beaver Brook	Source in Phillipston to confluence with the Millers River, Royalston		B	Cold Water
Upper Naukeag Lake	Entire lake to outlet in Ashburnham and those tributaries thereto		A	PWS ORW
Newton Reservoir	Entire reservoir to outlet in Athol and those tributaries thereto		A	PWS ORW
Crystal Lake (Crystal Lake Reservoir)	Entire lake to outlet in Gardner and those tributaries thereto		A	PWS ORW
Cowee Pond (Mamjohn Pond)	Entire pond to outlet in Gardner and those tributaries thereto		A	PWS ORW
Perley Brook Reservoir	Entire reservoir to outlet in Gardner and those tributaries thereto		A	PWS ORW

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4.06: continued

TABLE 16
MILLERS RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Lake Ellis (Ellis Pond)	Entire lake to outlet in Athol and those tributaries thereto		A	ORW
Boyce Brook	From New Hampshire state line at Royalston to confluence with East Branch Tully River, Royalston		B	Cold Water
Briggs Brook	Source in Erving to confluence with Millers River, Erving		B	Cold Water
Cheney Brook	Source in Warwick to confluence with West Brook, Orange		B	Cold Water
Collar Brook	Source in Royalston to confluence with West Branch Tully River, Orange		B	Cold Water
Coolidge Brook	Source in Orange to confluence with North Pond Brook, Orange		B	Cold Water
Crow Hill Brook	Source in Templeton to confluence with Trout Brook, Templeton		B	Cold Water
Dunn Brook	Source in Phillipston to confluence with Chickering Brook, Phillipston		B	Cold Water
Fish Brook	Source in Royalston to confluence with West Branch Tully River, Orange		B	Cold Water
Gate Hill Brook	Source in Wendell to confluence with Mormon Hollow Brook, Wendell		B	Cold Water
Hoyt Brook	Source in Phillipston to confluence with Beaver Brook, Phillipston		B	Cold Water

4.06: continued

TABLE 16
MILLERS RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Jacks Brook	Source in Northfield to confluence with Keyup Brook, Erving		B	Cold Water
Kenny Brook	Source in Royalston to confluence with Millers River, Royalston		B	Cold Water
Keyup Brook	Source in Northfield to confluence with Millers River, Erving		B	Cold Water
Lyons Brook	From the outlet of Ruggles Pond, Wendell, to confluence with the Millers River, Montague		B	Cold Water
Mormon Hollow Brook	Source in Wendell to confluence with Millers River, Wendell		B	Cold Water
Packard Brook	Source in Erving to confluence with Millers River, Erving		B	Cold Water
Rich Brook	Source in Royalston to confluence with Millers River, Athol		B	Cold Water
Thrower Brook	Source in Athol to inlet of South Athol Pond, Athol		B	Cold Water
Tully Brook	From MA-NH state line at Royalston to confluence with East Branch Tully River, Royalston		B	Cold Water
Wilson Brook	Source in Warwick to confluence with Darling Brook, Warwick		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

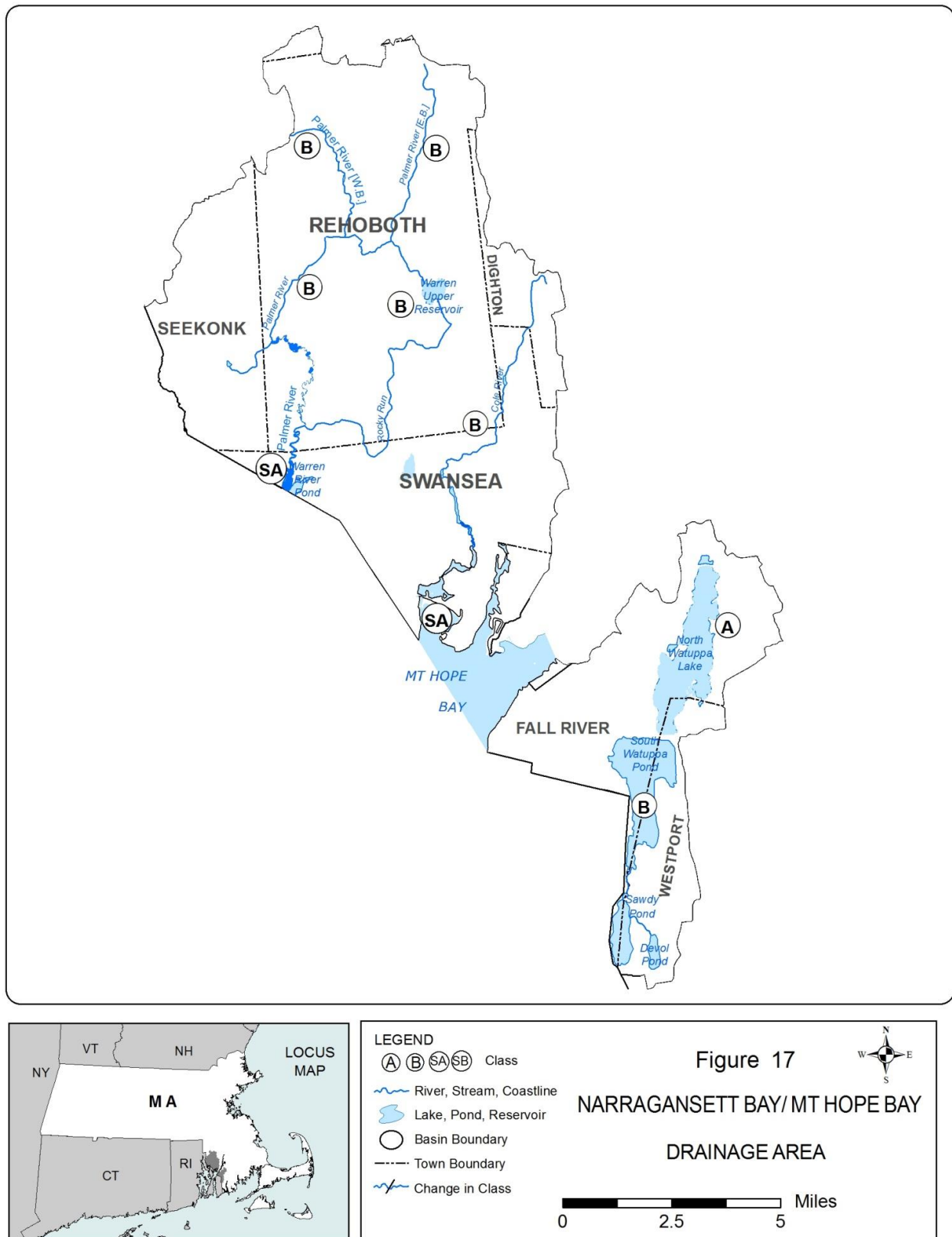
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*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

4.06: continued



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4.06: continued

TABLE 17 NARRAGANSETT BAY/MOUNT HOPE BAY DRAINAGE AREA				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Barrington River	Source to the MA-RI state line		SA	Shellfishing
Palmer River	Source to inlet of Shad Factory Pond		B	Cold Water
	From the outlet of Shad Factory Pond to the MA-RI state line		SB	Shellfishing
Mount Hope Bay	East of a straight line from Brayton Point to Buoy 4		SB	Shellfishing CSO
	West of a straight line from Brayton Point to Buoy 4		SA	Shellfishing
Lee and Cole Rivers	Source to estuary		B	Warm Water
	Estuary		SA	Shellfishing
Quequechan River	Entire length	2.5 - 0.0	B	Warm Water CSO
North Watuppa Pond	Entire pond to outlet in Fall River and those tributaries thereto		A	PWS ORW
Shad Factory Pond	Entire pond to outlet in Rehoboth		B	Treated Water Supply
Warren Upper Reservoir (Anawan Reservoir)	Entire reservoir to outlet in Rehoboth		B	Treated Water Supply
Warren Reservoir (Swansea Reservoir)	Entire reservoir to outlet in Swansea		B	Treated Water Supply

4.06: continued

¹Names cited in parentheses are unofficial, locally-used names

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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ORW = Outstanding Resource Water
PWS = Public Water Supply



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4.06: continued

TABLE 18
NASHUA RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Nashua River	From outlet of Lancaster Millpond, Clinton, to confluence with the North Nashua River, Lancaster (this segment is also known as the South Branch Nashua River)	41.0 - 36.4	B	Warm Water
	From confluence with the North Nashua River, Lancaster, to Pepperell Dam, Pepperell	36.4 - 14.1	B	Warm Water
	From the Pepperell Dam, Pepperell, to the MA-NH state line, Pepperell	14.1 - 10.5	B	Warm Water
North Nashua River	Source to Leominster POTW discharge	18.3 - 12.0	B	Warm Water CSO
	From the Leominster POTW discharge to confluence with the Nashua River	12.0 - 0.0	B	Warm Water
Phillips Brook	From Fitchburg to confluence with the North Nashua River, Fitchburg	1.0 - 0.0	B	Warm Water
Squannacook River	Source to Hollingsworth & Vose Dam, Shirley ²	14.3 - 3.3	B	Cold Water ORW
	From the Hollingsworth & Vose Dam, Shirley to confluence with the Nashua River ²	3.3 - 0.0	B	Warm Water
Nissitissit River	From the MA-NH state line, Pepperell, to confluence with the Nashua River ²		B	Cold Water ORW
Baker Brook	In Fitchburg/Lunenburg, to confluence with the Nashua River, Fitchburg		B	CSO

4.06: continued

TABLE 18 NASHUA RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Unnamed stream (Punch Brook)	From CSO discharge (FIT082) at Oliver Street between Adams and Elm Street, Fitchburg, to confluence with the North Nashua River, Fitchburg (this entire segment is culverted)		B	CSO
Beaver Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Bixby Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Locke Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Mason Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Mine Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Pearl Hill Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Pumpkin Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW

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TABLE 18
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Stewart Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Sucker Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Trap Swamp Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Trapfall Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Trout Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Walker Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Willard Brook (includes Ashby Reservoir)	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Witch Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Wolf Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	ORW
Bayberry Hill Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	Cold Water ORW

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4.06: continued

TABLE 18 NASHUA RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Gulf Brook	Portion within the Squannacook and Nissitissit Rivers Sanctuary		B	Cold Water ORW
Lovell Reservoir	Entire reservoir to outlet in Fitchburg and those tributaries thereto		A	PWS ORW
Scott Reservoir	Entire reservoir to outlet in Fitchburg and those tributaries thereto		A	PWS ORW
Wachusett Lake	Entire lake to outlet in Westminister and those tributaries thereto		A	PWS ORW
Overlook Reservoir	Entire reservoir to outlet in Fitchburg and those tributaries thereto		A	PWS ORW
Falulah Reservoir	Entire reservoir to outlet in Fitchburg and those tributaries thereto		A	PWS ORW
Muschopauge Pond (Muschopauge Pond Reservoir)	Entire pond to outlet in Rutland and those tributaries thereto		A	PWS ORW
Notown Reservoir	Entire reservoir to outlet in Leominster and those tributaries thereto		A	PWS ORW
Simonds Pond (Simonds Pond Reservoir)	Entire pond to outlet in Leominster and those tributaries thereto		A	PWS ORW

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TABLE 18 NASHUA RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Goodfellow Pond	Entire pond to outlet in Leominster and those tributaries thereto		A	PWS ORW
Haynes Reservoir	Entire reservoir to outlet in Leominster and those tributaries thereto		A	PWS ORW
Morse Reservoir	Entire reservoir to outlet in Leominster and those tributaries thereto		A	PWS ORW
Distributing Reservoir	Entire reservoir to outlet in Leominster and those tributaries thereto		A	PWS ORW
Fall Brook Reservoir	Entire reservoir to outlet in Leominster and those tributaries thereto		A	PWS ORW
Meetinghouse Pond (Meeting House Reservoir)	Entire pond to outlet in Westminster and those tributaries thereto		A	PWS ORW
Asnebumskit Pond	Entire pond to outlet in Paxton and those tributaries thereto		A	PWS ORW
Fitchburg Reservoir	Entire reservoir to outlet in Ashby and those tributaries thereto		A	PWS ORW
Kendall Reservoir	Entire reservoir to outlet in Holden and those tributaries thereto		A	PWS ORW
Pine Hill Reservoir	Entire reservoir to outlet in Holden and those tributaries thereto		A	PWS ORW

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TABLE 18
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Quinapoxet Reservoir	Entire reservoir to outlet in Holden and those tributaries thereto		A	PWS ORW
Wachusett Reservoir	Entire reservoir to outlet in Clinton and those tributaries thereto		A	PWS ORW
Bixby Reservoir	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW
Coon Tree Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Pepperell		B	ORW
Damon Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Ashby		B	ORW
Flat Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Groton		B	ORW
Graves Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW
Harbor Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW
Heald Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Pepperell		B	ORW
Pearl Hill Brook Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW

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4.06: continued

TABLE 18
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Pork Barrel Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Pepperell		B	ORW
Walker Pond	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Townsend		B	ORW
Wright Pond (Lower Wright Pond & Upper Wright Pond)	Portion within the Squannacook and Nissitissit Rivers Sanctuary, Ashby		B	ORW
Ball Brook	Source in Holden to confluence with Stillwater River, Sterling		A	Cold Water PWS ORW
Bumbo Brook	Source in Paxton to inlet of Pine Hill Reservoir, Paxton		A	Cold Water PWS ORW
Unnamed Stream (Burnt Mill Pond Brook)	From outlet of Round Meadow Pond Dam, Westminster, to confluence with the Whitman River, Westminster		B	Cold Water
Goodridge Brook	Entire length, Lancaster/Clinton		B	Cold Water
Malden Brook	Source in West Bolyston to inlet of Wachusett Reservoir, West Bolyston		A	Cold Water PWS ORW
Morse Brook	Source in Shirley to confluence with Nashua River, Shirley		B	Cold Water

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TABLE 18
NASHUA RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Mulpus Brook	Source in Lunenburg to confluence with the Nashua River, Shirley ²		B	Cold Water
Ponakin Brook	Source in Lancaster to confluence with North Nashua River, Lancaster		B	Cold Water
Poor Farm Brook	Source to inlet of Chaffin Pond, Holden		A	Cold Water PWS ORW
Reedy Meadow Brook	Source in Groton to confluence with the Nashua River, Pepperell ⁴		B	Cold Water
Scanlon Brook	Source in Sterling to confluence with Stillwater River, Sterling		A	Cold Water PWS ORW
South Meadow Brook	From outlet of Fitch Pond, Sterling, to inlet of South Meadow Pond, Clinton		B	Cold Water
Steam Mill Brook	Source in Princeton to confluence with Bartlett Pond Brook, Sterling		A	Cold Water PWS ORW
Still River	Source to Rte. 117, Bolton ³		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names²Note that all or a portion of these surface waters are within the Squannacook and Nissitissit Rivers Sanctuary and/or the Squannassit Area of Critical Environmental Concern (ACEC)³Note that all or a portion of these surface waters are within the Central Nashua River Valley ACEC

4.06: continued

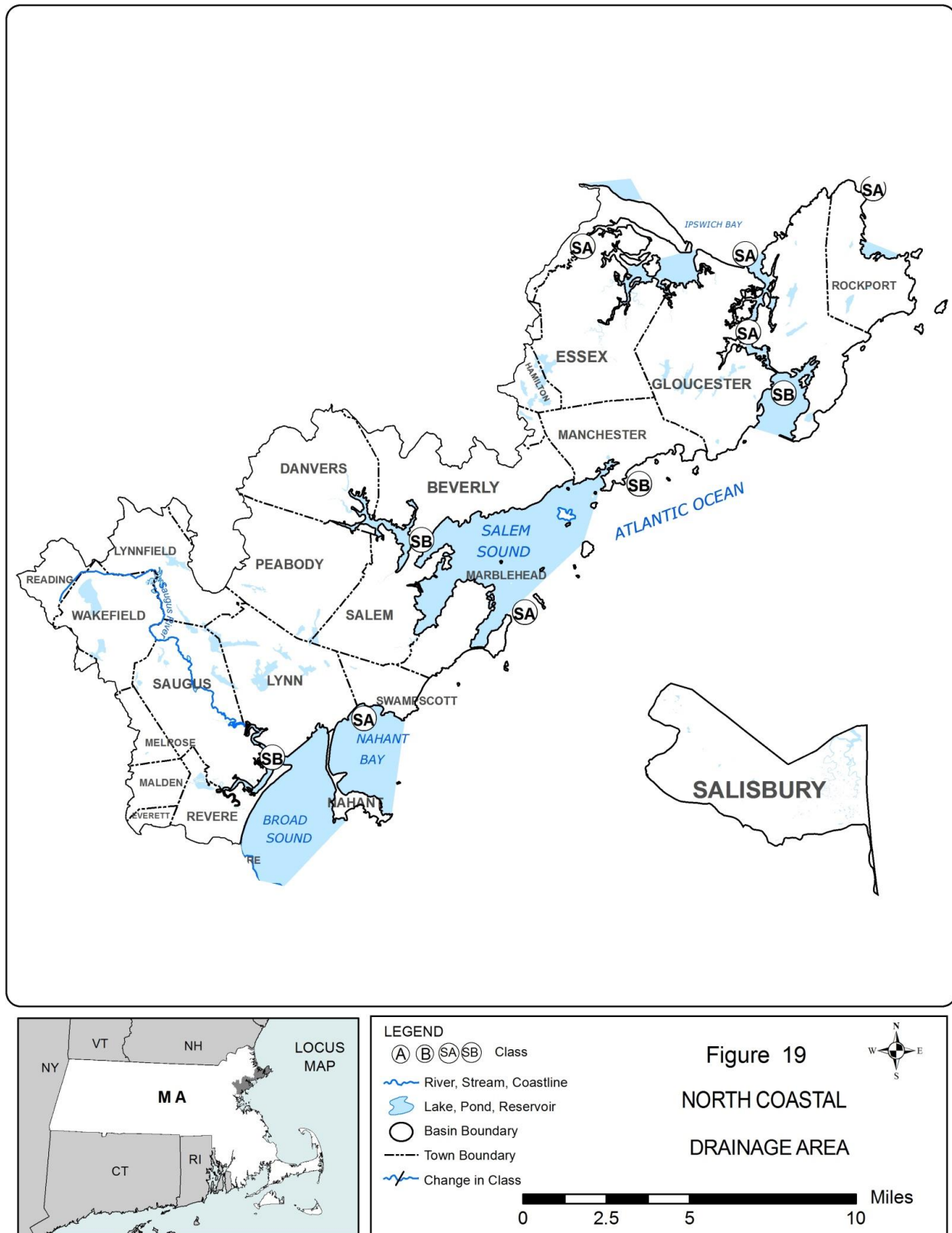
⁴Note that all or a portion of these surface waters are within the Petapawag ACEC

*Acronyms:

CSO = Combined Sewer Overflow
ORW = Outstanding Resource Water
PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



4.06: continued

TABLE 19
NORTH COASTAL DRAINAGE AREA

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Essex River	The coastal and marine portions of the Essex River and those tributaries thereto in the Town of Essex ²		SA	Shellfishing ORW
Ebben Creek	Portion of the surface water within the Great Marsh ACEC†		SA	Shellfishing ORW
Lufkin Creek	Portion of the surface water within the Great Marsh ACEC†		SA	Shellfishing ORW
Soginese Creek	Portion of the surface water within the Great Marsh ACEC†		SA	Shellfishing ORW
Essex Bay			SA	Shellfishing ORW
Castle Neck River	Portion of the surface water within the Great Marsh ACEC†		SA	Shellfishing ORW
Walker Creek			SA	Shellfishing ORW
Lanes Creek			SA	Shellfishing ORW
Farm Creek			SA	Shellfishing ORW
Annisquam River			SA	Shellfishing

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4.06: continued

TABLE 19
NORTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Rockport Harbor (including Back Harbor and a portion of Sandy Bay)	The waters landward from the boundary formed by a straight line drawn between Gully Point, Rockport, and Granite Pier, Rockport (including Back Harbor and a portion of Sandy Bay)		SB	Shellfishing
Gloucester Harbor			SB	Shellfishing CSO
Manchester Harbor			SB	Shellfishing
Beverly Harbor	The waters landward from the boundary formed by a straight line drawn between Juniper Point, Salem, to Hospital Point, Beverly (excluding the Danvers River).		SB	Shellfishing
Salem Harbor (including a portion of Salem Sound and Salem Channel)	The waters landward from the boundary formed by a straight line drawn from Naugus Head, Marblehead, to the northwest point of Bakers Island, Salem, to Hospital Point, Beverly, to Juniper Point, Salem (including a portion of Salem Sound and Salem Channel and excluding Forest River)		SB	Shellfishing
Marblehead Harbor			SA	Shellfishing
Massachusetts Bay			SA	Shellfishing
Nahant Bay			SA	Shellfishing CSO

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4.06: continued

TABLE 19 NORTH COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Lynn Harbor			SB	Shellfishing CSO
Saugus River	Source to the Saugus River Dam	13.6 - 10.5	A	PWS ORW
	From the outlet of the Saugus River Dam to Saugus Iron Works/Bridge Street	10.5 - 5.1	B	
	From Saugus Iron Works/Bridge Street to Boston Street Bridge	5.1 - 3.1	SB	Shellfishing
	Boston Street Bridge to mouth ³	3.1 - 0.0	SB	Shellfishing CSO ORW
Pines River	Source to mouth at confluence with the Saugus River and Lynn Harbor, Saugus/Revere ³		SB	ORW
Diamond Creek			SA	ORW
Spring Pond	Entire pond to outlet in Saugus ⁴		B	ORW
Griswold Pond	Entire pond to outlet in Saugus ⁴		B	ORW
Babson Reservoir	Entire reservoir to outlet in Gloucester and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 19
NORTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Haskell Pond (Haskell Reservoir)	Entire pond to outlet in Gloucester and those tributaries thereto		A	PWS ORW
Goose Cove Reservoir	Entire reservoir to outlet in Gloucester and those tributaries thereto		A	PWS ORW
Dykes Pond (Dykes Reservoir)	Entire pond to outlet in Gloucester and those tributaries thereto		A	PWS ORW
Wallace Pond (Wallace Reservoir)	Entire pond to outlet in Gloucester and those tributaries thereto		A	PWS ORW
Fernwood Lake	Entire lake to outlet in Gloucester and those tributaries thereto		A	PWS ORW
Klondike Reservoir (Quarry Reservoir)	Entire reservoir to outlet in Gloucester and those tributaries thereto		A	PWS ORW
Hawkes Pond	Entire pond to outlet in Saugus and those tributaries thereto		A	PWS ORW
Birch Pond	Entire pond to outlet in Saugus and Lynn and those tributaries thereto		A	PWS ORW
Breeds Pond	Entire pond to outlet in Lynn and those tributaries thereto		A	PWS ORW
Walden Pond	Entire pond to outlet in Lynn and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 19
NORTH COASTAL DRAINAGE AREA (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Gravelly Pond	Entire pond to outlet in Hamilton and those tributaries thereto		A	PWS ORW
Spring Pond	Entire pond to outlet in Peabody and those tributaries thereto		A	PWS ORW
Cape Pond	Entire pond to outlet in Rockport and those tributaries thereto		A	PWS ORW
Quarry Reservoir (Carlson's Quarry)	Entire reservoir to outlet in Rockport and those tributaries thereto		A	PWS ORW
Crystal Lake	Entire lake to outlet in Wakefield and those tributaries thereto		A	PWS ORW

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the Great Marsh ACEC (formerly the Parker River/Essex Bay ACEC)

³Note that all or a portion of these surface waters are within the Rumney Marshes ACEC

⁴Note that all or a portion of these surface waters are within the Golden Hills ACEC

*Acronyms:

ACEC = Area of Critical Environmental Concern

CSO = Combined Sewer Overflow

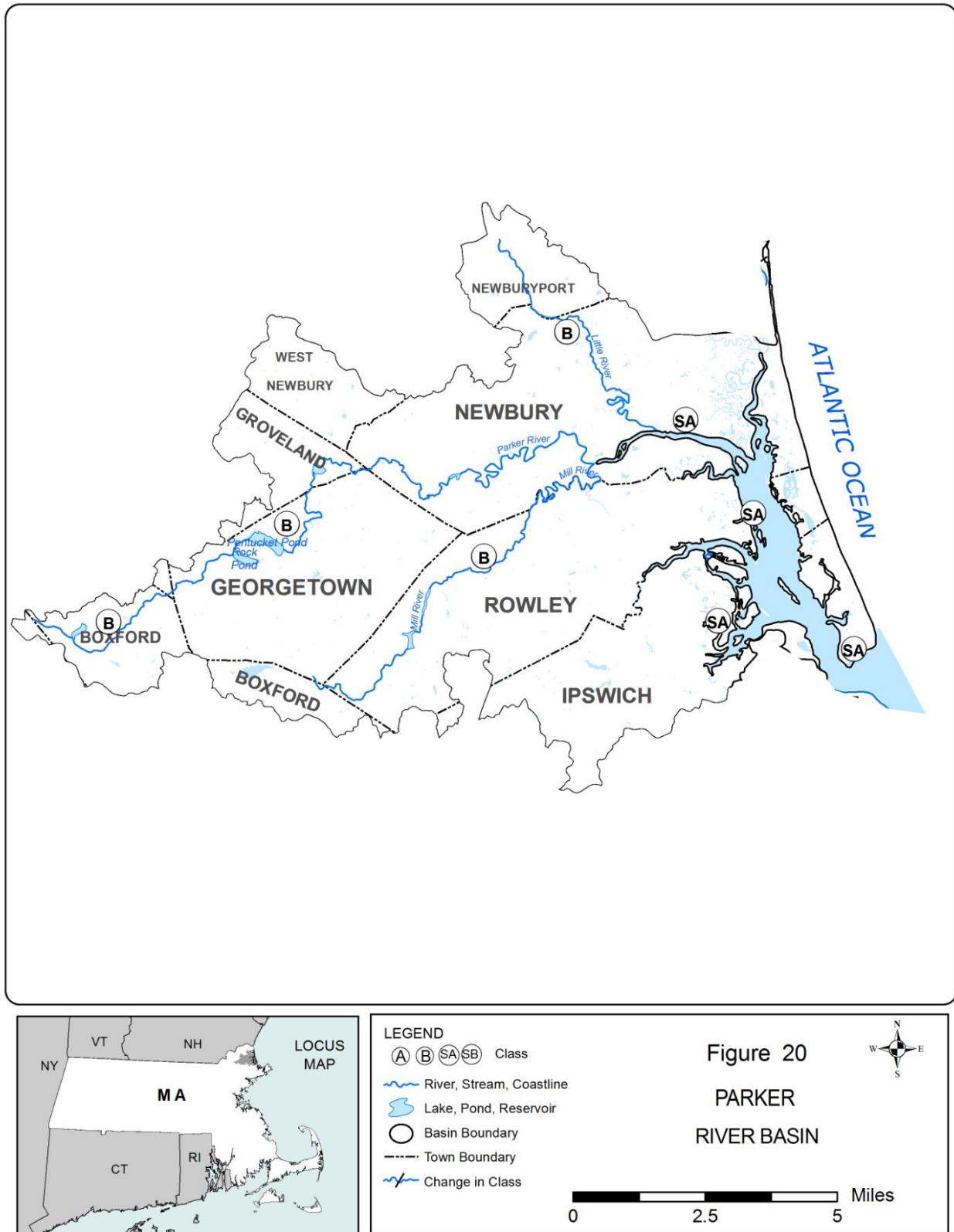
ORW = Outstanding Resource Water

PWS = Public Water Supply

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†Formerly the Parker River/Essex Bay ACEC

4.06: continued



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4.06: continued

TABLE 20 PARKER RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Parker River	Source in Boxford to tidal portion east of Parker River Dam #1, Newbury	23.1 - 9.0	B	Warm Water High Quality Water
	Tidal portion east of Parker River Dam #1, Newbury, to confluence with Plum Island Sound and those tributaries thereto ²	9.0 - 0.0	SA	Shellfishing ORW
Mill River	Source in Boxford to tidal portion and those tributaries thereto	9.6 - 2.3	B	Warm Water ORW
	Tidal portion and those tributaries thereto ²	2.3 - 0.0	SA, B**	Shellfishing ORW
Eagle Hill River	Entire length and those tributaries thereto ²		SA, B**	ORW
Third Creek	Entire length, Ipswich ²		SA, B**	ORW
Roger Island River	Entire length and those tributaries thereto ²		SA, B**	ORW
Rowley River	Entire length and those tributaries thereto ²		SA, B**	ORW
Egypt River	Entire length, Ipswich/Rowley ²		SA, B**	ORW
Mud Creek	Entire length, Newbury/Rowley, and those tributaries thereto ²		SA, B**	ORW

4.06: continued

TABLE 20 PARKER RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> †	<u>CLASS</u>	<u>QUALIFIERS</u> *
Plum Island River	South of High Sandy sand bar to confluence with Plum Island Sound, Newbury ²		SA	Shellfishing ORW
Pine Island Creek	Entire length, Newbury ²		SA, B**	ORW
Jericho Creek	Entire length, Newbury ²		SA, B**	ORW
Plum Island Sound	Entire sound, Newbury/Rowley/Ipswich ²		SA	Shellfishing ORW
Broad Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
Carolton Creek	Portion within the Great Marsh ACEC†, Rowley		SA	ORW
Club Head Creek	Portion within the Great Marsh ACEC†, Rowley		SA	ORW
Laws Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
Lords Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
Metcalf Creek	Portion within the Great Marsh ACEC†, Ipswich		SA, B**	ORW
Paine Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
Sand Creek	Portion within the Great Marsh ACEC†, Rowley		SA, B**	ORW
Sawyer Creek	Portion within the Great Marsh ACEC†, Rowley		SA, B**	ORW
Shad Creek	Portion within the Great Marsh ACEC†, Rowley		SA, B**	ORW

4.06: continued

Six Goose Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
TABLE 20 PARKER RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Stacy Creek	Portion within the Great Marsh ACEC†, Ipswich		SA	ORW
West Creek	Portion within the Great Marsh ACEC†, Rowley		SA	ORW
Ox Pasture Brook	Portion within the Great Marsh ACEC†, Rowley		SA, B**	ORW
Bull Brook Reservoir	Entire reservoir to outlet in Ipswich and those tributaries thereto		A	PWS ORW
Dow Brook Reservoir	Entire reservoir to outlet in Ipswich and those tributaries thereto		A	PWS ORW

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or portions of these surface waters are within the Great Marsh ACEC (formerly Parker River/Essex Bay ACEC)

*Acronyms:

ACEC = Area of Critical Environmental Concern

ORW = Outstanding Resource Water

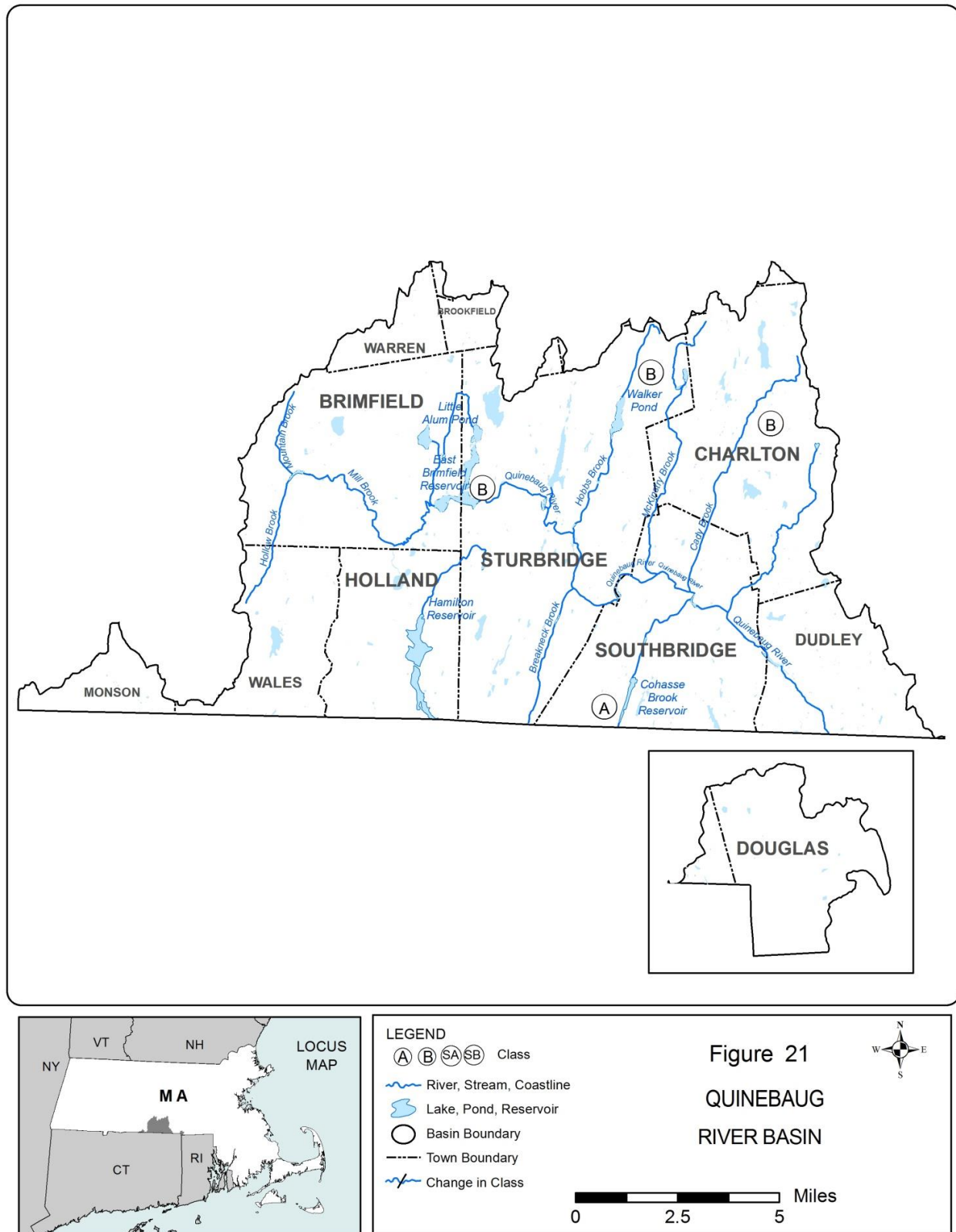
PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

†Formerly Parker River/Essex Bay ACEC

4.06: continued



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TABLE 21 QUINEBAUG RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Quinebaug River	From outlet of Hamilton Reservoir to Sturbridge POTW discharge	0.7 - 19.7	B	Cold Water High Quality Water
	From Sturbridge POTW discharge to confluence with Cady Brook	19.7 - 13.4	B	Cold Water
	From confluence with Cady Brook to Southbridge POTW discharge	13.4 - 12.2	B	Warm Water
	From Southbridge POTW discharge to MA-CT state line	12.2 - 7.9	B	Warm Water
Cady Brook	From outlet of Glen Echo Lake to Charlton City POTW discharge	6.1 - 5.1	B	Warm Water High Quality Water
	From Charlton City POTW discharge to confluence with Quinebaug River	5.1 - 0.0	B	Warm Water
Cohasse Brook Reservoir (Lo Cohasse Brook Reservoir)	Entire reservoir to outlet in Southbridge and those tributaries thereto		A	PWS ORW
No. 3 Reservoir (Hatchet Brook Reservoir #3)	Entire reservoir to outlet in Southbridge and those tributaries thereto		A	PWS ORW
Tufts Branch	From source in Dudley to the MA-CT state line		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

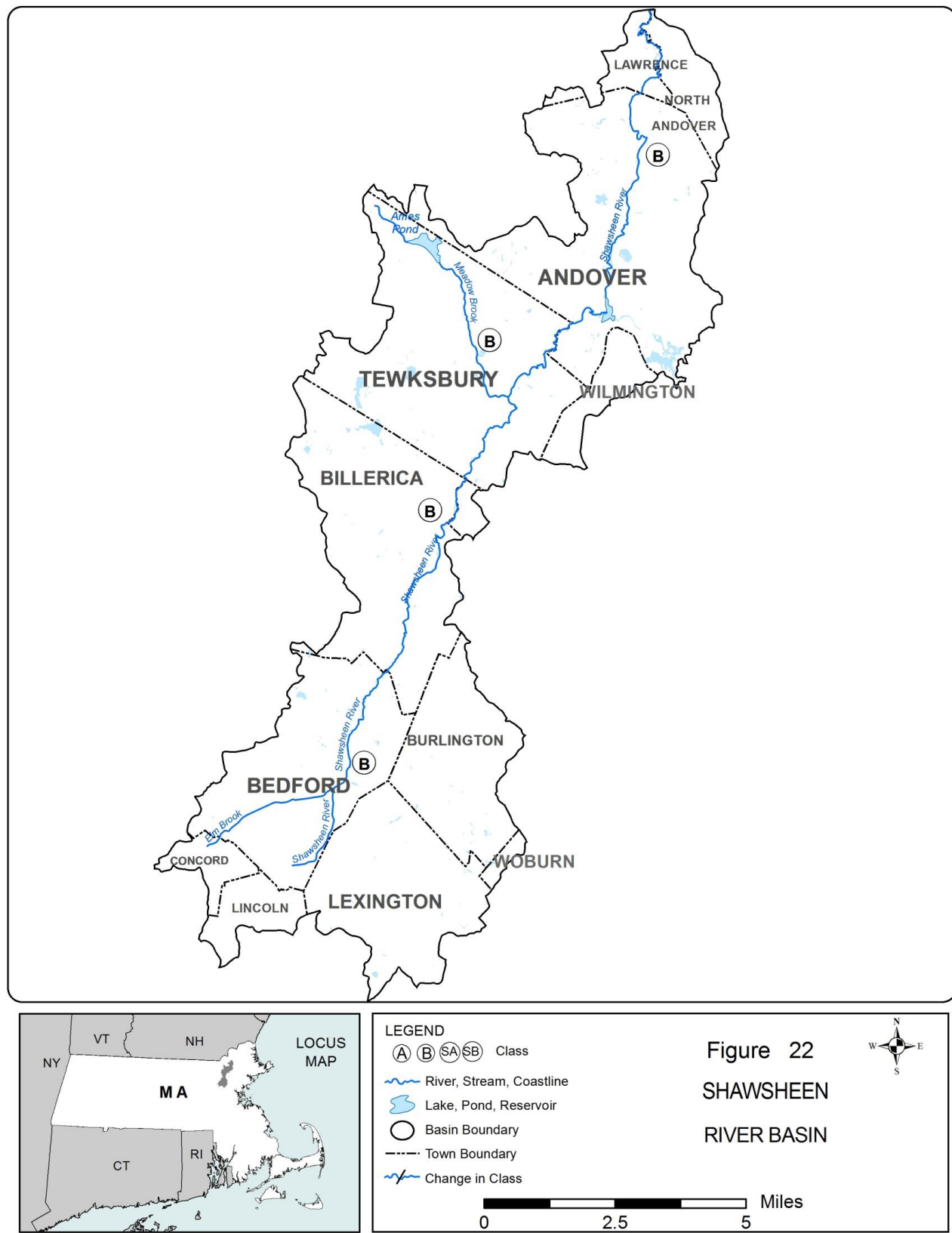
ORW = Outstanding Resource Water

PWS = Public Water Supply

4.06: continued

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4.06: continued



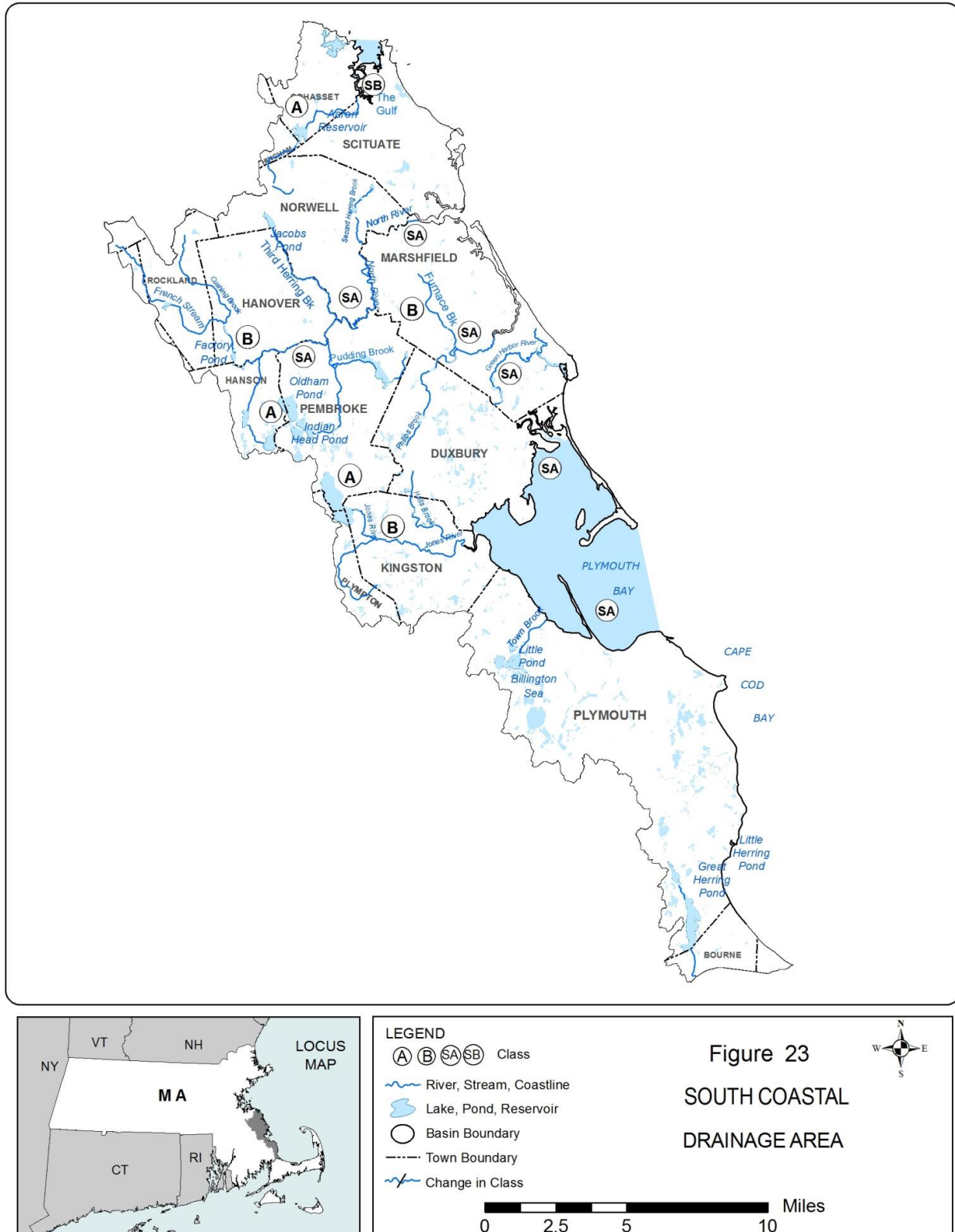
4.06: continued

TABLE 22
SHAWSHEEN RIVER BASIN

<u>SURFACE WATER NAME</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u>
Shawsheen River	Source to drinking water intake in Billerica (approximately Cook Street and Alexander Road)	25.0 - 18.0	B	Treated Water Supply Warm Water
	From drinking water intake in Billerica to confluence with the Merrimack River	18.0 - 0.0	B	Warm Water

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

4.06: continued



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4.06: continued

TABLE 23 SOUTH COASTAL DRAINAGE AREA				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> [‡]	<u>CLASS</u>	<u>QUALIFIERS</u> *
Cohasset Harbor			SA	Shellfishing
Little Harbor			SA	Shellfishing
The Gulf			SB	Shellfishing
Scituate Harbor			SA	Shellfishing
French Stream	Entire length, Rockland/Abington/Hanover		B	Warm Water
Drinkwater River	Entire length, Hanover		B	Warm Water
Indian Head River	Source to Curtis Crossing Dam, Hanover/Hanson/Pembroke		B	Warm Water
	From the Curtis Crossing Dam to confluence with Herring Brook, Hanover/Pembroke ²		B	Warm Water ORW
North River	From the confluence of Indian Head River and Herring Brook to confluence with Third Herring Brook ²	11.6 - 9.6	SA	Shellfishing ORW
	From the confluence with Third Herring Brook to Main Street, Marshfield ²	9.6 - 2.0	SA	Shellfishing ORW
	Main Street, Marshfield to Massachusetts Bay	2.0 - 0.0	SA	Shellfishing
South River	Source in Duxbury to dam at Main Street, Marshfield ²		B	ORW

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4.06: continued

TABLE 23 SOUTH COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
South River (cont.)	From the dam at Main Street, Marshfield to confluence with North River, Marshfield ²		SA	Shellfishing ORW
Green Harbor			SA	Shellfishing
Jones River	Source to former Wapping Road Dam, Kingston	7.0 - 3.4	B	Warm Water High Quality Water
	From former Wapping Road Dam, Kingston, to Elm Street Dam, Kingston	3.4 - 2.5	B	Warm Water
Cove Brook	Portion of this surface water within the North River Corridor, Marshfield ²		SA, B**	ORW
Herring Brook	Portion of this surface water within the North River Corridor, Pembroke ²		SA, B**	ORW
Iron Mine Brook	Portion of this surface water within the North River Corridor, Hanover ²		SA, B**	ORW
Second Herring Brook	Portion of this surface water within the North River Corridor, Norwell ²		SA, B**	ORW
Stony Brook	Portion of this surface water within the North River Corridor, Norwell ²		SA, B**	ORW
Third Herring Brook	Portion of this surface water within the North River Corridor, Norwell ²		SA, B**	ORW

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4.06: continued

TABLE 23 SOUTH COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME¹</u>	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT[‡]</u>	<u>CLASS</u>	<u>QUALIFIERS*</u>
Robinson Creek	Portion of this surface water within the North River Corridor, Pembroke ²		SA, B**	ORW
Furnace Pond	Entire pond to outlet in Pembroke and those tributaries thereto		A	PWS ORW
Silver Lake	Entire lake to outlet in Kingston and those tributaries thereto		A	PWS ORW
Mounce Pond	Portion of this surface water within the North River Corridor		SA, B**	ORW
Great Sandy Bottom Pond	Entire pond to outlet in Pembroke and those tributaries thereto		A	PWS ORW
Great South Pond	Entire pond to outlet in Plymouth and those tributaries thereto		A	PWS ORW
Lily Pond	Entire pond to outlet in Cohasset and those tributaries thereto		A	PWS ORW
Little South Pond (South Pond)	Entire pond to outlet in Plymouth and those tributaries thereto		A	PWS ORW
Old Oaken Bucket Pond (Herring Brook Pond)	Entire pond to outlet in Scituate and those tributaries thereto		A	PWS ORW
Aaron River Reservoir	Entire reservoir to outlet in Cohasset and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 23 SOUTH COASTAL DRAINAGE AREA (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Abington Rockland Reservoir (Hingham Street Reservoir)	Entire reservoir to outlet in Rockland and those tributaries thereto		A	PWS ORW
Huldah Brook	Source in Marshfield to confluence with Pudding Brook, Pembroke		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

²Note that all or a portion of these surface waters are within the North River Corridor as defined by the “Scenic and Recreational River Protective Order for the North River”, issued pursuant to M.G.L. 21, § 17B, and Section 62 of Chapter 367 of the Acts of 1978.

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

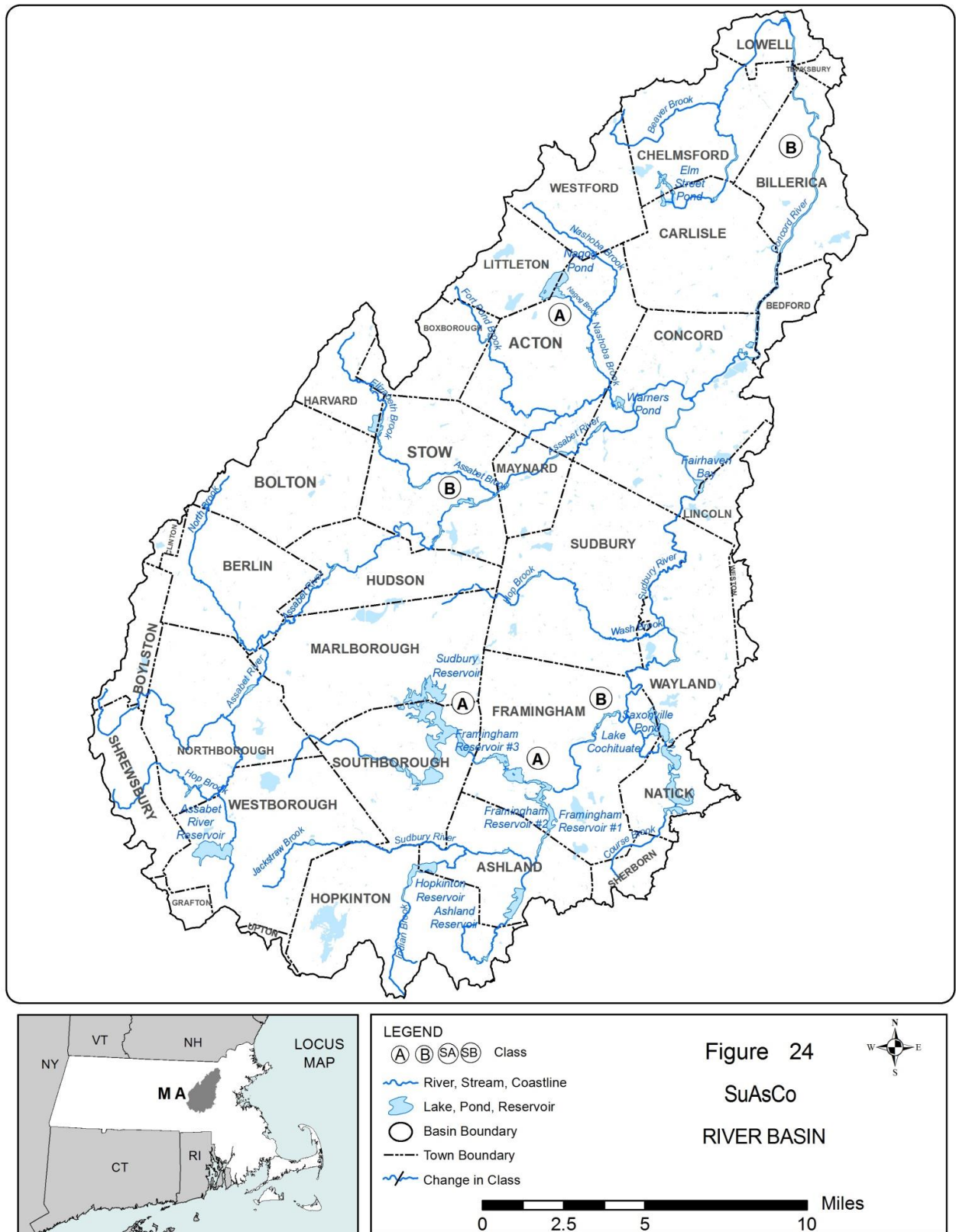
*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

**Coastal and marine waters Class SA; fresh waters Class B

4.06: continued



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4.06: continued

TABLE 24 SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN				
<u>SURFACE WATER NAME</u> ^{1*}	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Sudbury River	From outlet of Cedar Swamp Pond to Fruit Street Bridge in Hopkinton ²	Above 29.1	B	Warm Water ORW
	From Fruit Street Bridge, Hopkinton to outlet of Saxonville Pond	29.1 - 16.2	B	Warm Water High Quality Water
	From outlet of Saxonville Pond to confluence with Hop Brook, Wayland	16.2 - 10.6	B	Aquatic Life High Quality Water
	From confluence with Hop Brook, Wayland to confluence with the Assabet River forming the headwaters of the Concord River	10.6 - 0.00	B	Aquatic Life
Denney Brook	Entire brook ²		B	ORW
Jackstraw Brook	Source in Westborough to Upton Road, first crossing south of Hopkinton Road, Westborough ²		B	Cold Water ORW
	From Upton Road, first crossing south of Hopkinton Road, Westborough, to the inlet of Cedar Swamp Pond, Westborough ²		B	ORW
Picadilly Brook	Entire brook ²		B	ORW
Rutters Brook	Entire brook ²		B	ORW
Whitehall Brook	Entire brook ²		B	ORW

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TABLE 24 SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ^{1*}	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Hop Brook	From Carding Mill Pond Dam to confluence with the Sudbury River	9.7 - 0.0	B	Warm Water
Concord River	From confluence of Assabet and Sudbury Rivers to the Billerica Water Supply Intake	15.4 - 5.9	B	Warm Water Treated Water Supply
	From the Billerica Water Supply Intake to Rogers Street, Lowell	5.9 - 1.0	B	Warm Water
	From Rogers Street, Lowell to confluence with the Merrimack River	1.0 - 0.0	B	Warm Water CSO
Assabet River	Source to the Westborough POTW discharge	31.8 - 30.4	B	Warm Water High Quality Water
	From the Westborough POTW discharge to outlet of Boones Pond (Lake Boon)	30.4 - 12.4	B	Warm Water
	From outlet of Boones Pond to confluence with the Sudbury River, forming the headwaters of the Concord River	12.4 - 0.0	B	Warm Water
Nagog Pond	Entire pond to outlet in Acton and those tributaries thereto		A	PWS ORW

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4.06: continued

TABLE 24 SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ^{1*}	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Westborough Reservoir (Sandra Pond)	Entire reservoir to outlet in Westborough and those tributaries thereto		A	PWS ORW
Gates Pond (Gates Pond Reservoir)	Entire pond to outlet in Berlin and those tributaries thereto		A	PWS ORW
White Pond	Entire pond to outlet in Hudson and those tributaries thereto		A	PWS ORW
Millham Reservoir	Entire reservoir to outlet in Marlborough and those tributaries thereto		A	PWS ORW
Lake Williams Reservoir (Williams Lake)	Entire reservoir to outlet in Marlborough and those tributaries thereto		A	PWS ORW
Sudbury Reservoir	Entire reservoir in Westborough, Marlborough, Southborough, and Framingham and those tributaries thereto		A	PWS ORW
MWRA Open Canal (Wachusett Aqueduct)	Entire length and those tributaries thereto		A	PWS ORW
Framingham Reservoir No. 3	Entire reservoir to outlet in Framingham and those tributaries thereto		A	PWS ORW
Cedar Swamp Pond	The portion of the surface water within the Westborough Cedar Swamp ACEC		B	ORW

4.06: continued

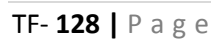
TABLE 24 SUDBURY ASSABET CONCORD (SuAsCo) RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ^{1*}	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Pine Brook	Source in Wayland to confluence with Sudbury River, Wayland		B	Cold Water
Sheep Fall Brook	Source in Marlborough to confluence with Flagg Brook, Marlborough		B	Cold Water
Unnamed tributary to Assabet River	Entire length from source south of Athens St. in Stow to confluence with the Assabet River, Stow		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names²Note that all or a portion of these surface waters are within the Westborough Cedar Swamp ACEC

*Acronyms:

ACEC = Area of Critical Environmental Concern
 CSO = Combined Sewer Overflow
 MWRA = Massachusetts Water Resources Authority
 ORW = Outstanding Resource Water
 PWS = Public Water Supply

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4.06: continued

TABLE 25 TAUNTON RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Taunton River	From confluence with the Town River to Rt. 24 Bridge	40.8 - 21.2	B	Warm Water
	From Rt. 24 Bridge to its mouth at confluence with Mt. Hope Bay	21.2 - 0.0	SB	Shellfishing CSO
Salisbury Plain River	From Brockton POTW discharge to confluence with the Matfield River, East Bridgewater		B	Warm Water
Matfield River	From confluence with the Salisbury Plain River, East Bridgewater, to confluence with the Town River, East Bridgewater		B	Warm Water
Town River	From Bridgewater POTW discharge to confluence with the Matfield and Taunton Rivers	2.4 - 0.0	B	Warm Water
Nemasket River	From Middleborough POTW discharge to confluence with the Taunton River		B	Warm Water
Saw Mill Brook	Entire length	1.5 - 0.0	B	Warm Water
Mill River	From outlet of Lake Sabbatia, Taunton, to confluence with the Taunton River	3.4 - 0.0	B	Warm Water
Three Mile River	Source to confluence with the Taunton River	15.8 - 0.0	B	Warm Water
Wading River (Attleboro Reservoir)	Source to PWS intake in Mansfield and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 25
TAUNTON RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Wading River (Attleboro Reservoir) (cont.)	From water supply intake, Mansfield to confluence with Three Mile River		B	Warm Water
Assawompset Pond	Entire pond to outlet in Lakeville and those tributaries thereto		A	PWS ORW
Great Quittacas Pond	Entire pond to outlet in Lakeville and those tributaries thereto		A	PWS ORW
Little Quittacas Pond	Entire pond to outlet in Lakeville and those tributaries thereto		A	PWS ORW
Long Pond	Entire pond to outlet in Lakeville and those tributaries thereto		A	PWS ORW
Pocksha Pond	Entire pond to outlet in Lakeville and those tributaries thereto		A	PWS ORW
Somerset Reservoir	Entire reservoir to outlet in Somerset and those tributaries thereto, including Segreganset River from pumping station, Dighton, to source		A	PWS ORW
Monponsett Pond	Entire pond to outlet in Halifax and those tributaries thereto (inclusive of east and west basins; feeder to Silver Lake water supply listed in the South Coastal drainage area)		A	PWS ORW
Elders Pond	Entire pond to outlet in Lakeville and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 25 TAUNTON RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Brockton Reservoir (Avon Reservoir, Salisbury Brook Reservoir)	Entire reservoir to outlet in Avon and those tributaries thereto		A	PWS ORW

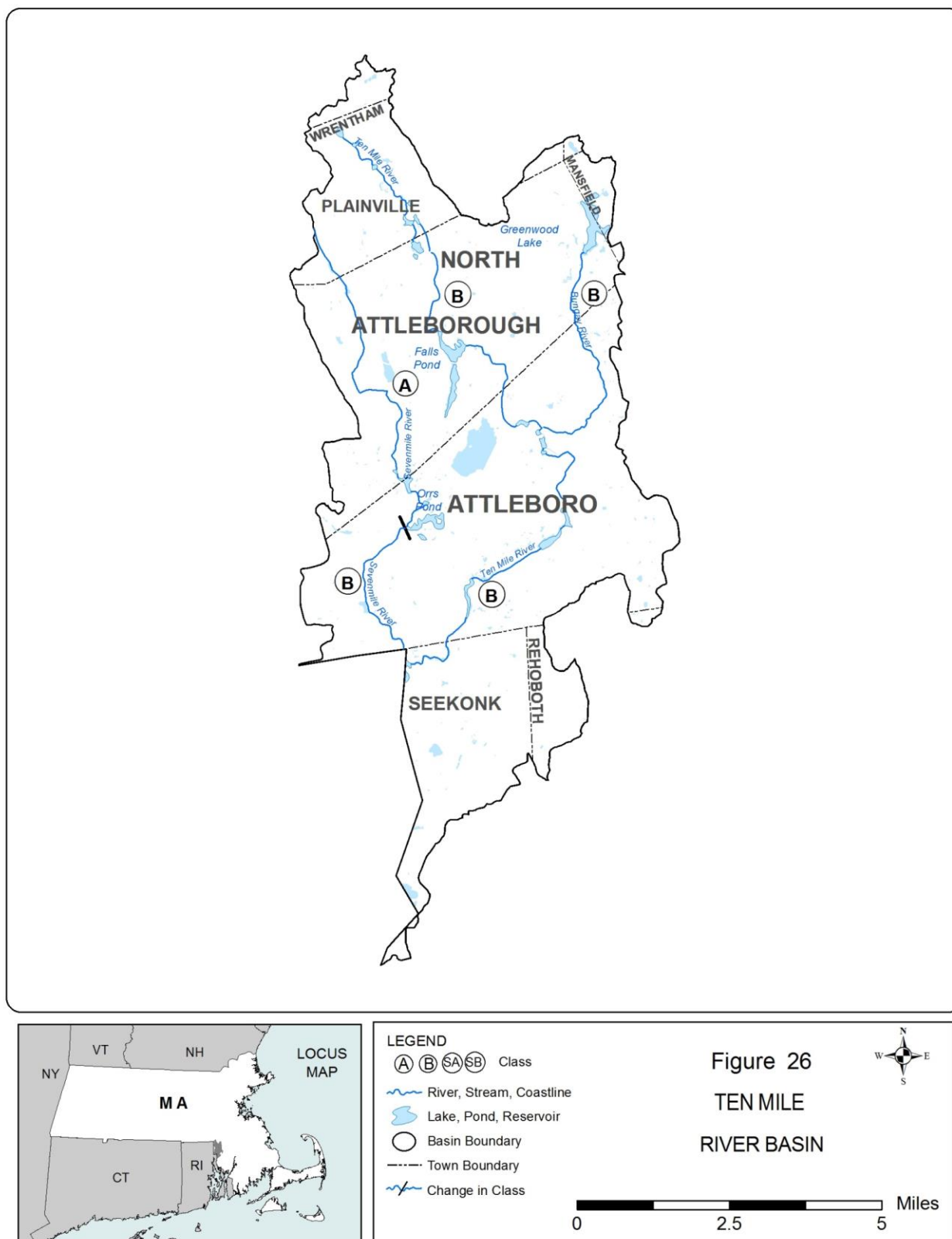
¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

CSO = Combined Sewer Overflow
 ORW = Outstanding Resource Water
 PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of “0”). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 26
TEN-MILE RIVER BASIN

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Ten Mile River	Source to West Bacon Street, Plainville	23.1 - 19.9	B	Warm Water High Quality Water
	From West Bacon Street, Plainville to Whiting Pond Dam	19.9 - 19.3	B	Warm Water High Quality Water
	From Whiting Pond Dam to MA-RI state line	19.3 - 0.0	B	Warm Water
Bungay River	Entire length, North Attleborough/Attleboro	4.5 - 0.0	B	Warm Water
Speedway Brook (or Thacher Brook)	Entire length, Attleboro	2.0 - 0.0	B	Warm Water
Orrs Pond (Sevenmile River, City Pond, Upper Pond, Orrs Reservoir)	Entire pond to outlet in Attleboro and those tributaries thereto		A	PWS ORW

¹Names cited in parentheses are unofficial, locally-used names

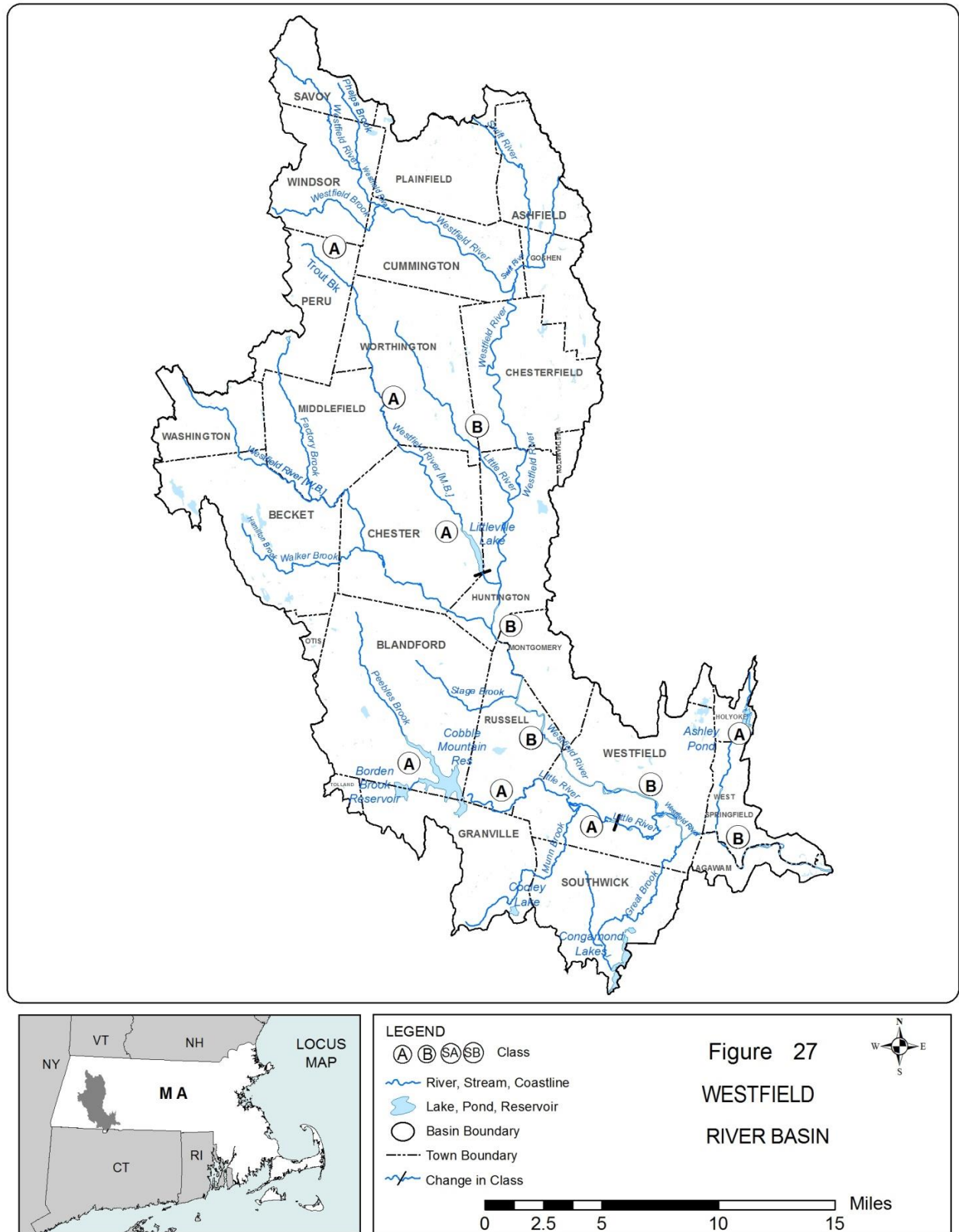
‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

4.06: continued



4.06: continued

TABLE 27 WESTFIELD RIVER BASIN				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Middle Branch Westfield River	Source to Kinnebrook Road, Dayville	Above 3.0	A	Cold Water PWS ORW
	From Kinnebrook Road, Dayville to Littleville Dam, Chester/Huntington (inclusive of Littleville Lake) and those tributaries thereto	3.0 - 1.0	A	PWS ORW
	From outlet of Littleville Dam to confluence with the Westfield River	1.0 - 0.0	B	Warm Water High Quality Water
West Branch Westfield River	Source to Chester Center	17.5- 7.5	B	Cold Water High Quality Water
	From Chester Center to confluence with the Westfield River	7.5 - 0.0	B	Cold Water
Westfield River	Source to confluence with the Middle Branch Westfield River (includes the former segment of river known locally as the Westfield River East Branch)	62.5 - 27.1	B	Cold Water High Quality Water
	From confluence with the Middle Branch Westfield River to confluence with the Connecticut River	27.1- 0.0	B	Warm Water
Dead Branch (Brook)	From outlet of Long Pond to confluence with the Westfield River		B	Cold Water

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TABLE 27 WESTFIELD RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Little River	From Cobble Mt. Reservoir Dam to hydroelectric dam (this river is a tributary to a PWS)		A	Cold Water PWS ORW
	From Hydroelectric dam to confluence with Westfield River		B	Cold Water
Long Pond (Long Pond Reservoir, Tucker Healy Pond, Lincoln Pond)	Source to outlet in Blandford and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Austin Brook Reservoir)	Entire reservoir to outlet in Chester and those tributaries thereto		A	PWS ORW
Horn Pond (Horn Pond Reservoir)	Entire pond to outlet in Becket and those tributaries thereto		A	PWS ORW
Huntington Reservoir (Cold Brook Reservoir)	Entire reservoir to outlet in Blandford and those tributaries thereto		A	ORW
Russell Reservoir (Lower Black Brook Reservoir)	Entire reservoir to outlet in Russell and those tributaries thereto		A	PWS ORW
Bearhole Reservoir (Bearhole Brook Reservoir, Prudys Pond)	Entire reservoir to outlet in West Springfield and those tributaries thereto		A	PWS ORW
Granville Reservoir	Entire reservoir to outlet in Granville and those tributaries thereto		A	PWS ORW
Cobble Mt. Reservoir	Entire reservoir to outlet in Russell and those tributaries thereto		A	PWS ORW

4.06: continued

TABLE 27
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Intake Reservoir	Entire reservoir to outlet of hydroelectric dam in Russell and those tributaries thereto		A	PWS ORW
Unnamed Pond (Sedimentation Basin, Westfield Mountain Pond)	Entire pond northeast of the intersection of Gorge Rd and Granville Road in Westfield and those tributaries thereto		A	PWS ORW
Ashley Reservoir (Ashley Pond, Wright Pond, Cedar Reservoir)	Entire reservoir to outlet in Holyoke and those tributaries thereto		A	PWS ORW
McLean Reservoir	Entire reservoir to outlet in Holyoke and those tributaries thereto		A	PWS ORW
Unnamed Reservoir (Upper Black Brook Reservoir)	Entire reservoir on Black Brook just west of Martin Phelps Road to outlet in Blandford and those tributaries thereto		A	PWS ORW
Abbott Brook	Entire length, Chester		B	Cold Water
Arm Brook	Source to inlet of unnamed impoundment upstream of Rte. 90 highway crossing, Southampton/Westfield		B	Cold Water
Ashley Brook	Source to confluence with Jacks Brook, Westfield		B	Cold Water
Austin Brook	Source in Becket to the inlet of Unnamed Reservoir (Austin Brook Reservoir)		A	Cold Water PWS ORW

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TABLE 27 WESTFIELD RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Austin Brook (cont.)	From the outlet of Unnamed Reservoir (Austin Brook Reservoir) to confluence with Walker Brook, Chester		B	Cold Water
Barry Brook	Entire length, Holyoke/West Springfield/Westfield		B	Cold Water
Bartlett Brook	Entire length, Plainfield/Cummington		B	Cold Water
Bearden Brook	Source in Montgomery to confluence with Westfield River, Montgomery		B	Cold Water
Blair Brook	Source in Chester to confluence with West Branch Westfield River, Chester		B	Cold Water
Bronson Brook	Entire length, Cummington/Worthington		B	Cold Water
Bush Brook	Entire length, Westfield		B	Cold Water
Clear Brook	Source in Savoy to confluence with Windsor Jambs Brook, Windsor		B	Cold Water
Cone Brook	Source in Peru to confluence with Tuttle Brook, Peru (this brook is a tributary to a PWS)		A	Cold Water PWS ORW
Crow Brook	Source in Montgomery to confluence with Roaring Brook, Montgomery		B	Cold Water
Depot Brook	Entire length, Washington/Becket		B	Cold Water

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TABLE 27 WESTFIELD RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Dickinson Brook	Entire length, Granville		B	Cold Water
Factory Brook	Entire length, Peru/Middlefield		B	Cold Water
Florida Brook	Source in Huntington to confluence with Westfield River, Huntington		B	Cold Water
Freeland Brook	Source in Blanford to confluence with Stage Brook, Russell		B	Cold Water
Fuller Brook	Entire length, Peru/Worthington		A	Cold Water PWS ORW
Geer Brook	Entire length, Peru/Middlefield		B	Cold Water
Hamilton Brook	Source in Becket to confluence with Walker Brook, Becket		B	Cold Water
Hollister Brook	Source in Granville to inlet of Granville Reservoir, Granville (this brook is a tributary to a PWS)		A	Cold Water PWS ORW
Horse Hill Brook	Source in Huntington to confluence with Roaring Brook, Huntington		B	Cold Water
Hume Brook	Source in Windsor to confluence with Westfield Brook, Windsor		B	Cold Water

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4.06: continued

TABLE 27
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Hundred Acre Brook	Source in Westfield to confluence with Little River, Westfield		B	Cold Water
Kearney Brook	Entire length, Cummington/Worthington		B	Cold Water
Kellog Brook	Entire length, Southwick/Westfield		B	Cold Water
Kinne Brook	Entire length, Worthington/Chester		A	Cold Water PWS ORW
Mica Mill Brook	Source in Chester to confluence with West Branch Westfield River, Chester		B	Cold Water
Mill Brook	Entire length in Plainfield/Cummington to confluence with the Westfield River		B	Cold Water
Miller Brook	Entire length, Agawam		B	Cold Water
Mongue Meadow Brook	Source in Windsor to confluence with Alder Meadow Brook, Windsor		B	Cold Water
Munn Brook	Entire length, Granville/Southwick/Westfield		B	Cold Water
Otis Wait Brook	Source in Chester to confluence with West Branch Westfield River, Chester		B	Cold Water
Pittsinger Brook	Source in Huntington to confluence with Dead Branch Brook, Huntington		B	Cold Water

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TABLE 27 WESTFIELD RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY*</u>	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS*</u>
Pixley Brook	Source in Blandford to confluence with Peebles Brook, Blandford (this brook is a tributary to a PWS)		A	Cold Water PWS ORW
Pond Brook	Entire length, Huntington		B	Cold Water
Potash Brook	Entire length, Blandford/Russell		B	Cold Water
Powell Brook	Source in Cummington to confluence with Kearney Brook, Cummington		B	Cold Water
Roaring Brook (1)	Entire length in Huntington/Montgomery to confluence with the Westfield River		B	Cold Water
Roaring Brook (2)	Entire length in Chester/Huntington to confluence with the West Branch Westfield River		B	Cold Water
Shaker Mill Brook	Entire length, Washington/Becket		B	Cold Water
Shaw Brook	Entire length, Windsor		B	Cold Water
Skunk Brook	Source in Chester to confluence with Kinne Brook, Chester (this brook is a tributary to a PWS)		A	Cold Water PWS ORW
Smith Brook	Source to confluence with Middle Branch Westfield River, Chester (this brook is a tributary to a PWS)		A	Cold Water PWS ORW

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TABLE 27 WESTFIELD RIVER BASIN (continued)				
<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Sodum Brook	Source in Russell to confluence with Little River, Russell		B	Cold Water
Stage Brook	Entire length, Russell		B	Cold Water
Steep Bank Brook	Entire length, Windsor		B	Cold Water
Stones Brook	Entire length, Ashfield/Goshen		B	Cold Water
Swift River	Entire length, Hawley/Ashfield/Goshen/Cummington		B	Cold Water
Swift River North Branch	Entire length, Plainfield/Ashfield/Cummington		B	Cold Water
Sykes Brook	Source in Chester to confluence with Westfield River, Huntington		B	Cold Water
Tannery Brook	Source in Blanford to confluence with Bedlam Brook, Blandford (this brook is a tributary to a PWS)		A	Cold Water PWS ORW
Tower Brook	Entire length, Cummington/Worthington/Chesterfield		B	Cold Water
Walker Brook	Entire length, Becket/Chester		B	Cold Water
West Branch (Brook)	Entire length, Worthington/Chesterfield		B	Cold Water
Westfield Brook	Entire length, Windsor/Cummington		B	Cold Water
White Brook	Entire length, Agawam		B	Cold Water

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TABLE 27
WESTFIELD RIVER BASIN (continued)

<u>SURFACE WATER NAME</u> ¹	<u>SURFACE WATER OR SEGMENT BOUNDARY</u> *	<u>MILE POINT</u> ‡	<u>CLASS</u>	<u>QUALIFIERS</u> *
Whitmarsh Brook	Source in Cummington to confluence with Bronson Brook, Worthington		B	Cold Water
Wolf Brook	Source in Cummington to confluence with Westfield Brook, Cummington		B	Cold Water
Yokum Brook	Entire length, Becket		B	Cold Water

¹Names cited in parentheses are unofficial, locally-used names

*Acronyms:

ORW = Outstanding Resource Water

PWS = Public Water Supply

‡ Mile Point values represent the approximate distance in miles of each end of a given surface water or segment from its mouth (assigned a value of "0"). Mile Points are provided where available for convenience in locating the upstream and downstream ends of segments. Narrative descriptions of surface water or segment boundaries, however, always control over boundaries based upon Mile Points.

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TABLE 28
SITE SPECIFIC CRITERIA

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
BLACKSTONE RIVER BASIN	Auburn Pond	Auburn	Total Phosphorus	0.025 mg/L
	Blackstone River	From the Upper Blackstone POTW discharge to the MA-RI state line (river mile 45.2 to 20.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Brierly Pond	Millbury	Total Phosphorus	0.025 mg/L
	Curtis Pond North	Worcester	Total Phosphorus	0.025 mg/L
	Curtis Pond South	Worcester	Total Phosphorus	0.025 mg/L
	Dorothy Pond	Millbury	Total Phosphorus	0.025 mg/L
	Eddy Pond	Auburn	Total Phosphorus	0.015 mg/L
	Flint Pond	Grafton, Worcester, Shrewsbury	Total Phosphorus	0.012 mg/L
	Green Hill Pond	Worcester	Total Phosphorus	0.025 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
BLACKSTONE RIVER BASIN (cont.)	Howe Reservoir (West Basin)	Millbury	Total Phosphorus	0.025 mg/L
	Indian Lake	Worcester	Total Phosphorus	0.027 mg/L
	Jordan Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Lake Quinsigamond	Worcester, Shrewsbury	Total Phosphorus	0.012 mg/L
	Leesville Pond	Auburn, Worcester	Total Phosphorus	0.040 mg/L
	Mill Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Mumford River	From the Douglas POTW discharge to confluence with the Blackstone River (river mile 9.0 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Newton Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Pondville Pond	Auburn	Total Phosphorus	0.025 mg/L

4.06: continued

TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
BLACKSTONE RIVER BASIN (cont.)	Salisbury Pond	Worcester	Total Phosphorus	0.0455 mg/L
	Shirley Pond	Shrewsbury	Total Phosphorus	0.025 mg/L
	Smiths Pond	Leicester	Total Phosphorus	0.020 mg/L
	Southwick Pond	Leicester	Total Phosphorus	0.010 mg/L
	Stoneville Pond	Auburn	Total Phosphorus	0.025 mg/L
	West River	From the Upton POTW discharge to confluence with Blackstone River (river mile 8.8 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
BUZZARDS BAY COASTAL DRAINAGE AREA	Unnamed Brook	The unnamed brook located approximately ¼-mile northeast of and parallel to Aucoot Creek, from the Marion POTW discharge in Marion to confluence with Aucoot Cove (river mile 0.75 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
CAPE COD COASTAL DRAINAGE AREA Stage Harbor System	Mill Pond	Chatham. Criterion applies at mid-channel of the outlet of Mill Pond (which is a part of the Mitchell River), approximately 350 meters upstream of Bridge Street Bridge (Lat. 41.67191; Long. -69.95974167). If criterion is met, it will also protect Little Mill Pond and Mitchell River.	Total Nitrogen	0.38 mg/L
	Oyster Pond	Chatham. Criterion applies at approximately mid-channel between Long Point and the point off the end of Woodcarver Knoll Rd (Lat. 41.6787192; Long. -69.97749022). If criterion is met, it will also protect Stetson Cove, Oyster Pond River and Stage Harbor.	Total Nitrogen	0.38 mg/L
CAPE COD COASTAL DRAINAGE AREA Sulphur Springs System	Harding Beach Pond (locally known as Sulphur Springs)	Pond to outlet to Bucks Creek, Chatham. Criterion applies at lower end of Harding Beach Pond in open water, near the outlet to Bucks Creek (Lat. 41.67365; Long. -70.00000278). If criterion is met, it will also protect Bucks Creek.	Total Nitrogen	0.38 mg/L
CAPE COD COASTAL DRAINAGE AREA Taylors Pond System	Taylors Pond	Chatham. Criterion applies at the eastern side of the pond, approximately 60 meters from shore (Lat. 41.677769; Long. -70.016989). If criterion is met, it will also protect Mill Creek.	Total Nitrogen	0.38 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
CAPE COD COASTAL DRAINAGE AREA Bassing Harbor System	Ryder Cove (Inner and Outer Ryder Cove)	Chatham. Criterion applies at two locations: 50 meters from the eastern shore, adjacent to Woodland Way Circle (Lat. 41.708384; Long. -69.981777) and Mid-channel of Ryder Cove at narrows (adjacent to Rover Run Rd) approximately 0.6 kilometers upstream of outlet to Bassing Harbor (Lat. 41.706554; Long. -69.973544). If criterion is met at these two locations, it will also protect Bassing Harbor, Crows Pond, and Frost Fish Creek.	Bioactive Nitrogen‡	0.160mg/L*
CAPE COD COASTAL DRAINAGE AREA Muddy Creek System	Muddy Creek	Outlet of small unnamed pond south of Countryside Drive and north-northeast of Old Queen Anne Road to mouth at Pleasant Bay, Chatham. Criterion applies at mid-channel, approximately 200 meters upstream of Orleans Road Bridge (Lat. 41.71109; Long. -69.99653472)	Bioactive Nitrogen‡	0.210 mg/L
CHARLES RIVER BASIN	Charles River	From the Milford POTW discharge to the Watertown Dam (river mile 73.4 to 9.8)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
CHARLES RIVER BASIN (cont.)	Stop River	From MCI-Norfolk Water Pollution Control Facility discharge to confluence with Charles River (river mile 4.4 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
CHICOPEE RIVER BASIN	Browning Pond	Oakham	Total Phosphorus	0.015 mg/L
	Long Pond	Springfield	Total Phosphorus	0.030 mg/L
	Mona Lake	Springfield	Total Phosphorus	0.030 mg/L
	Minechoag Pond	Ludlow	Total Phosphorus	0.030 mg/L
	Spectacle Pond	Wilbraham	Total Phosphorus	0.020 mg/L
	Sugden Reservoir	Spencer	Total Phosphorus	0.015 mg/L
	Wickaboag Pond	West Brookfield	Total Phosphorus	0.015 mg/L

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TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
CONNECTICUT RIVER BASIN	Aldrich Lake East	Granby	Total Phosphorus	0.030 mg/L
	Aldrich Lake West	Granby	Total Phosphorus	0.030 mg/L
	Bachelor Brook	12.4 to 0.0 (its mouth at the confluence with Connecticut River, South Hadley)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Lake Warner	Hadley	Total Phosphorus	0.030 mg/L
	Lake Wyola	Shutesbury	Total Phosphorus	0.015 mg/L
	Leverett Pond	Leverett	Total Phosphorus	0.015 mg/L
	Loon Pond	Springfield	Total Phosphorus	0.030 mg/L
FRENCH RIVER BASIN	Buffumville Lake	Charlton	Total Phosphorus	0.015 mg/L
	Cedar Meadow Pond	Leicester	Total Phosphorus	0.015 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
FRENCH RIVER BASIN (cont.)	Dresser Hill Pond	Charlton	Total Phosphorus	0.035 mg/L
	Dutton Pond	Leicester	Total Phosphorus	0.025 mg/L
	Gore Pond	Charlton, Dudley	Total Phosphorus	0.014 mg/L
	French River	River mile 27.3 to 7.0 (at the MA-CT state line, Dudley/Webster)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Granite Reservoir	Charlton	Total Phosphorus	0.015 mg/L
	Greenville Pond	Leicester	Total Phosphorus	0.025 mg/L
	Hudson Pond	Oxford	Total Phosphorus	0.015 mg/L
	Jones Pond	Charlton, Spencer	Total Phosphorus	0.015 mg/L
	Larner Pond	Dudley	Total Phosphorus	0.014 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
FRENCH RIVER BASIN (cont.)	Lowes Pond	Oxford	Total Phosphorus	0.015 mg/L
	McKinstry Pond	Oxford	Total Phosphorus	0.015 mg/L
	New Pond	Dudley	Total Phosphorus	0.014 mg/L
	Peter Pond	Dudley	Total Phosphorus	0.010 mg/L
	Pikes Pond	Charlton	Total Phosphorus	0.015 mg/L
	Robinson Pond	Oxford	Total Phosphorus	0.012 mg/L
	Rochdale Pond	Leicester	Total Phosphorus	0.025 mg/L
	Shepherd Pond	Dudley	Total Phosphorus	0.014 mg/L
	Texas Pond	Oxford	Total Phosphorus	0.025 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
FRENCH RIVER BASIN (cont.)	Tobins (Mosquito) Pond	Dudley	Total Phosphorus	0.014 mg/L
	Wallis Pond	Dudley	Total Phosphorus	0.014 mg/L
HUDSON RIVER BASIN	Hoosic River (South Branch Hoosic River)	From Adams POTW discharge to confluence with the North Branch Hoosic River, North Adams (river mile 15.4 to 10.3)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
HOUSATONIC RIVER BASIN	Housatonic River	From Pittsfield POTW discharge to the MA-CT state line, Sheffield (river mile 50.9 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
IPSWICH RIVER BASIN	Unnamed tributary (Greenwood Creek)	From Ipswich POTW discharge to confluence with the Ipswich River, Ipswich (river mile 0.7 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
MILLERS RIVER BASIN	Beaver Flowage Pond	Royalston	Total Phosphorus	0.0125 mg/L
	Bents Pond	Gardner	Total Phosphorus	0.015 mg/L
	Bourne-Hadley Pond	Templeton	Total Phosphorus	0.015 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
MILLERS RIVER BASIN (cont.)	Brazell Pond	Templeton	Total Phosphorus	0.015 mg/L
	Cowee Pond	Gardner	Total Phosphorus	0.0127 mg/L
	Davenport Pond	Petersham, Athol	Total Phosphorus	0.0127 mg/L
	Depot Pond	Templeton	Total Phosphorus	0.015 mg/L
	Ellis Pond	Athol	Total Phosphorus	0.015 mg/L
	Greenwood Pond	Templeton	Total Phosphorus	0.015 mg/L
	Greenwood Pond	Westminster	Total Phosphorus	0.0139 mg/L
	Hilchey Pond	Gardner	Total Phosphorus	0.019 mg/L
	Lake Denison	Winchendon	Total Phosphorus	0.015 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
MILLERS RIVER BASIN (cont.)	Lake Monomonac	Winchendon	Total Phosphorus	0.0133 mg/L
	Lower Naukeag Lake	Ashburnham	Total Phosphorus	0.0145 mg/L
	Minott Pond	Westminster	Total Phosphorus	0.015 mg/L
	Minott Pond South	Westminster	Total Phosphorus	0.011 mg/L
	Parker Pond	Gardner	Total Phosphorus	0.015 mg/L
	Ramsdall Pond	Gardner	Total Phosphorus	0.015 mg/L
	Reservoir No. 1	Athol	Total Phosphorus	0.015 mg/L
	Reservoir No. 2	Phillipston, Athol	Total Phosphorus	0.0051 mg/L
	Riceville Pond	Petersham, Athol	Total Phosphorus	0.015 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
MILLERS RIVER BASIN (cont.)	South Athol Pond	Athol	Total Phosphorus	0.015 mg/L
	Stoddard Pond	Winchendon	Total Phosphorus	0.015 mg/L
	Wallace Pond	Ashburnham	Total Phosphorus	0.0137 mg/L
	Ward Pond	Athol	Total Phosphorus	0.015 mg/L
	Whites Mill Pond	Winchendon	Total Phosphorus	0.015 mg/L
	Whitney Pond	Winchendon	Total Phosphorus	0.015 mg/L
	Wrights Reservoir	Gardner, Westminster	Total Phosphorus	0.0135 mg/L
NASHUA RIVER BASIN	Bare Hill Pond	Harvard	Total Phosphorus	0.030 mg/L

4.06: continued

TABLE 28
SITE SPECIFIC CRITERIA (continued)

<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
NASHUA RIVER BASIN (cont.)	North Nashua River	River mile 36.5 to 0.0 (its mouth at the confluence with the Nashua River, Lancaster)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Nashua River (South Branch)	The portion of the Nashua River from its confluence with the North Branch Nashua River, Lancaster, to 3.3 miles upstream, Clinton	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Squannacook River	From 500 feet downstream of the outlet of the Squannacook River Reservoir Dam to confluence with the Nashua River, Shirley/Groton (river mile 3.3 to 0.0)	Zinc	Acute ¹ : 167.2 µg/L @ 60 mg/L hardness Chronic ² : 168.6 µg/L @ 60 mg/L hardness
QUINEBAUG RIVER BASIN	Cady Brook	From the Charlton POTW discharge to confluence with the Quinebaug River, Southbridge (river mile 5.1 to 0.0)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
QUINEBAUG RIVER BASIN	Quinebaug River	River mile 19.7 to 7.9 (at the MA-CT state line, Dudley)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
SOUTH COASTAL DRAINAGE AREA	French Stream	River mile 3.3 to 0.0 (its mouth at the confluence with the Drinkwater River, Hanover)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

4.06: continued

TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
SUASCO RIVER BASIN	Assabet River	River mile 30.4 to 0.0 (its mouth at the confluence with the Sudbury River, Concord)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Lake Boon	Hudson, Stow	Total Phosphorus	0.020 mg/L
TAUNTON RIVER BASIN	Nemasket River	River mile 5.5 to 0.0 (its mouth at the confluence with the Taunton River, Middleborough)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Salisbury Plain River	River mile 2.0 to 0.0 (its mouth at the confluence with Beaver Brook, both surface waters forming the headwaters of the Matfield River, East Bridgewater)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Three Mile River	River mile 6.0 to 0.0 (its mouth at the confluence with the Taunton River, Dighton/Taunton)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
	Town River	River mile 2.2 to 0.0 (its mouth at the confluence with the Matfield River, both surface waters forming the headwaters of the Taunton River, Bridgewater)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

4.06: continued

TABLE 28 SITE SPECIFIC CRITERIA (continued)				
<u>BASIN/DRAINAGE AREA</u>	<u>SURFACE WATER*</u>	<u>BOUNDARY, TOWN OR RIVER MILE **†</u>	<u>SITE-SPECIFIC CRITERIA</u>	
			Pollutant	Criteria††
TEN MILE RIVER BASIN	Ten Mile River	River mile 14.0 to 0.0 (at the MA-RI state line, Seekonk)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L
WESTFIELD RIVER BASIN	Westfield River	River mile 10.8 to 0.0 (its mouth at the confluence with the Connecticut River)	Copper	Acute ¹ : 25.7 µg/L Chronic ² : 18.1 µg/L

*Names cited in parentheses are unofficial, locally-used names

**Acronyms:

MWRA = Massachusetts Water Resources Authority

POTW = Publicly-Owned Treatment Works

¹ The average ambient surface water pollutant concentration over any 1-hour period shall not exceed the acute criterion (Criterion Maximum Concentration or CMC) more than once during any three year period.

² The average ambient surface water pollutant concentration over any 4-day period shall not exceed the chronic criterion (Criterion Continuous Concentration or CCC) more than once during any three year period.

†A River Mile is a linear measurement that begins at the mouth of the river ("0.0"), and increases in an upstream direction along its path.

††Copper and zinc criteria are dissolved concentrations

‡ Bioactive Nitrogen consists of ammonia, nitrate, nitrite, and particulate organic nitrogen (composed primarily of live and dead phytoplankton)

4.06: continued

TABLE 29: GENERALLY APPLICABLE CRITERIA

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>	
Acrolein	107028	P	3 Standard CMC Frequency & Duration	3 Standard CCC Frequency & Duration	--	--	
Aesthetics			See 314 CMR 4.05(5)(a) narrative Minimum Criteria				
Aldrin	309002	P	1.5 Standard CMC Frequency & Duration	--	0.65 Standard CMC Frequency & Duration	--	
Alkalinity			--	20,000 Where the background condition of alkalinity is lower than this value, the criterion cannot be lower than 25% of the background level.	--	--	

¹ Chemical Abstracts Service (CAS) Numbers, which are maintained in the CAS registry, are unique numeric identifiers for chemical substances. CAS is a division of the American Chemical Society.

² The Priority Pollutants are a subset of toxic pollutants for which EPA has published analytical test methods (see <https://www.epa.gov/eg/toxic-and-priority-pollutants-under-clean-water-act>). When they were originally established, such pollutants had to have been found in water with a frequency of occurrence of at least 2.5 percent, and had to have been produced in significant quantities, as reported in Stanford Research Institute's "1976 Directory of Chemical Producers, USA". The list of Priority Pollutants are published at 40 CFR Part 423, Appendix A.

³ Unless otherwise noted, the average ambient surface water pollutant concentration over any 1-hour period shall not exceed the CMC more than once during any three year period ("Standard CMC Frequency & Duration").

⁴ Unless otherwise noted, the average ambient surface water pollutant concentration over any 4-day period shall not exceed the CCC more than once during any three year period ("Standard CCC Frequency & Duration").

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4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Aluminum	7429905		the default concentration for the applicable watershed specified in Appendix A or the calculated concentration using EPA's Aluminum Criteria Calculator V2.0 (Excel) However the criterion is determined, the Standard CMC Frequency and Duration applies.	the default concentration for the applicable watershed specified in Appendix A or the calculated concentration using EPA's Aluminum Criteria Calculator V2.0 (Excel) However the criterion is determined, the Standard CCC Frequency and Duration applies.	--	--	1. Criteria are expressed as total recoverable metal in the water column. ⁵ 2. EPA's Aluminum Criteria Calculator V2.0 (Excel) (the "Aluminum Calculator") shall mean the version of the Aluminum Calculator made available on DEP's website on [insert effective date of regulations]. ⁶ 3. The Aluminum Calculator is a model used to develop criteria for aluminum. The input parameters for each calculation using this model shall consist of a concurrently collected set of pH, hardness and dissolved organic carbon (DOC) data, for the relevant location. ⁷ 4. If the applicable default criterion is available in Appendix A and a calculated concentration is determined using the Aluminum Calculator for a relevant location, the calculated concentration determined by the Aluminum Calculator shall be the criteria.

⁵ The default criteria concentrations were derived using EPA's Final Aquatic Life Ambient Water Quality Criteria for Aluminum 2018 model (EPA-822-R-18-001).

⁶ At the time of promulgation of this regulation, EPA's website also contains a copy of the Aluminum Calculator.

⁷ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

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4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Ammonia	7664417		<p>the concentration determined using Tables 5a or 5b, as applicable, of EPA's "Aquatic Life Ambient Water Quality Criteria for Ammonia - Freshwater – 2013", EPA 822-R-18-002 (Ammonia Criteria, 2013)^{8,9}</p> <p>or</p> <p>the calculated concentration using the applicable equation provided in Appendix B</p> <p>However the criterion is determined, the Standard CMC Frequency & Duration applies</p>	<p>the concentration determined using Tables 5a or 5b of EPA's Ammonia Criteria, 2013^{8,9}</p> <p>or</p> <p>the calculated concentration using the applicable equation provided in Appendix B</p> <p>However the criterion is determined, the average ambient surface water concentration over any 30-day period shall not exceed the criterion more than once during any three year period and the average concentration over any 4-day period within those 30 days is not to exceed 2.5 times the criterion.</p>	<p>0.233 mg/L (as un-ionized (NH₃) ammonia)</p> <p>or</p> <p>the concentration of total ammonia (NH₃ + NH₄⁺) as provided in Table 2 of EPA's "Ambient Water Quality Criteria for Ammonia (Saltwater) – 1989", EPA 440/5-88-004 (Ammonia Criteria, 1989)⁸</p> <p>However the criterion is determined, the Standard CMC Frequency & Duration applies</p>	<p>0.035 mg/L (as un-ionized (NH₃) ammonia)</p> <p>or</p> <p>the concentration of total ammonia (NH₃ + NH₄⁺), as provided in Table 3 of EPA's Ammonia Criteria, 1989⁸</p> <p>However the criterion is determined, the Standard CCC Frequency & Duration applies</p>	<p>1. Fresh Water Criteria are expressed as total ammonia nitrogen (TAN).</p> <p>2. Fresh Water criteria derivation requires collection of a set of pH and temperature measurements for the relevant location.¹⁰</p> <p>3. Coastal and Marine criteria derivation using Table 2 or 3 of EPA's Ammonia Criteria, 1989 document requires collection of a set of pH, temperature and salinity measurements for the relevant location.¹⁰</p> <p>4. Conversion of Coastal and Marine un-ionized ammonia concentrations to total ammonia may be performed using the procedure described in the introduction to EPA's Ammonia Criteria, 1989, document.</p>

⁸ A copy of each referenced EPA publication may be located by searching by the referenced EPA document number on MassDEP's website.

⁹ The following are examples of criteria calculated using a pH of 7.0 and a temperature of 20°C: CMC = 17 mg/L, CCC = 1.9 mg/L.

¹⁰ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

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4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>	
Arsenic	7440382		340 Standard CMC Frequency & Duration	150 Standard CCC Frequency & Duration	69 Standard CMC Frequency & Duration	36 Standard CCC Frequency & Duration	1. These criteria are expressed as total recoverable concentrations. 2. Criteria may be adjusted using the water effects ratio (WER) procedure as described in Appendix E.
BHC-gamma (Lindane)	58899	P	0.48 Standard CMC Frequency & Duration	—	0.08 Standard CMC Frequency & Duration	—	
Bottom Pollutants or Alterations			See 314 CMR 4.05(5)(b) Minimum Criteria				

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4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Cadmium	7440439	P	The calculated concentration using the hardness-dependent equation as provided in Appendix C. ^{11,12} Standard CMC Frequency & Duration	The calculated concentration using the hardness-dependent equation as provided in Appendix C. ^{11,12} Standard CCC Frequency & Duration	33 Standard CMC Frequency & Duration	7.9 Standard CCC Frequency & Duration	1. These criteria are expressed as dissolved metal in the water column. 2. Hardness-dependent equations are used to develop the Fresh Water criteria for cadmium. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C. 3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G. 4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.

¹¹ The following are examples of criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 0.49 µg/L and CCC = 0.09 µg/L.

¹² 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>	
Carbaryl	63252		2.1 Standard CMC Frequency & Duration	2.1 Standard CCC Frequency & Duration	1.6 Standard CMC Frequency & Duration	--	
Chlordane	57749	P	1.2 ¹³ Standard CMC Frequency & Duration	0.0043 ¹⁴ Standard CCC Frequency & Duration	0.045 ¹³ Standard CMC Frequency & Duration	0.004 ¹⁴ Standard CCC Frequency & Duration	
Chloride	16887006		860,000 Standard CMC Frequency & Duration	230,000 Standard CCC Frequency & Duration	—	—	
Chlorine	7782505		19 Standard CMC Frequency & Duration	11 Standard CCC Frequency & Duration	13 Standard CMC Frequency & Duration	7.5 Standard CCC Frequency & Duration	
Chlorpyrifos	2921882		0.083 Standard CMC Frequency & Duration	0.041 Standard CCC Frequency & Duration	0.011 Standard CMC Frequency & Duration	0.0056 Standard CCC Frequency & Duration	

¹³ The 1980 EPA CMC criterion was divided by 2 to obtain values more comparable to derivations using the 1985 EPA Guidelines.

¹⁴ The CCCs are based on the Final Residue Value (FRV) procedure.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE	
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L
Chromium (III)	16065831	P	the calculated concentration using the hardness-dependent equation as provided in Appendix C ^{15,16} Standard CMC Frequency & Duration	the calculated concentration using the hardness-dependent equation as provided in Appendix C ^{15,16} Standard CCC Frequency & Duration	—	—

1. These criteria are expressed as dissolved metal in the water column.

2. Hardness-dependent equations are used to develop the Fresh Water criteria for chromium (III). The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.

3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.

4. Criteria may be adjusted using the water effects ratio (WER) procedure as described in Appendix E.

¹⁵ The following are examples of chromium (III) criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 183 and CCC = 24.

¹⁶ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria

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4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Chromium (VI)	18540299	P	16 Standard CMC Frequency & Duration	11 Standard CCC Frequency & Duration	1,100 Standard CMC Frequency & Duration	50 Standard CCC Frequency & Duration	1. These criteria are expressed as dissolved metal in the water column. 2. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G. 3. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.
Color and Turbidity	—		See 314 CMR 4.05(3) and (4) for narrative criteria for each class of water.				

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4.06: continued

29a: AQUATIC LIFE CRITERIA								
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES	
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L		
Copper	7440508	P	<p>the default calculated concentration using the hardness- dependent equation as set forth in Appendix C</p> <p>or</p> <p>the calculated concentration using the Biotic Ligand Model (BLM) as set forth in Appendix D.</p> <p>However the criterion is determined, the Standard CMC Frequency & Duration applies.</p>	<p>the default calculated concentration using the hardness- dependent equation as set forth in Appendix C</p> <p>or</p> <p>the calculated concentration using the BLM as set forth in Appendix D.</p> <p>However the criterion is determined, the Standard CCC Frequency & Duration applies.</p>	4.8 ¹⁷	3.1 ¹⁷	<p>Standard CMC Frequency & Duration</p> <p>Standard CCC Frequency & Duration</p>	<p>1. These criteria are expressed as dissolved metal in the water column.</p> <p>2. Hardness-dependent equations are used to develop the Fresh Water criteria for copper. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.¹⁸</p> <p>3. The BLM is a model used to develop Fresh Water criteria for copper. The input parameters for each criteria calculation using the copper BLM shall consist of a set of pH, DOC, alkalinity, temperature, calcium, magnesium, sodium, potassium, sulfate, and chloride data, for the relevant location.¹⁸</p> <p>4. If both a hardness-dependent and a BLM criteria are calculated or are able to be calculated for a relevant location, the BLM criteria will apply.</p> <p>5. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</p>

¹⁷ Criteria may be adjusted using the water effects ratio (WER) procedure as described in Appendix E.

¹⁸ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

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4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Cyanide	57125	P	22 Standard CMC Frequency & Duration	5.2 Standard CCC Frequency & Duration	1 Standard CMC Frequency & Duration	1 Standard CCC Frequency & Duration	These criteria are expressed as µg free cyanide (CN/L).
4,4'-DDT	50293	P	0.4 ¹⁹ Standard CMC Frequency & Duration	0.001 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	0.07 ¹⁹ Standard CMC Frequency & Duration	0.001 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	Each criterion applies to 4,4'-DDT and also applies to the combined total of 4,4'-DDT and its metabolites (i.e., TDE and DDE).
Demeton	8065483		— Standard CMC Frequency & Duration	0.1 Standard CCC Frequency & Duration	— Standard CMC Frequency & Duration	0.1 Standard CCC Frequency & Duration	
Diazinon	333415		0.17 Standard CMC Frequency & Duration	0.17 Standard CCC Frequency & Duration	0.82 Standard CMC Frequency & Duration	0.82 Standard CCC Frequency & Duration	

¹⁹ The 1980 EPA CMC criterion was divided by 2 to obtain a value more comparable to derivations using the 1985 EPA Guidelines.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Dieldrin	60571	P	0.12 ²⁰ Standard CMC Frequency & Duration	0.056 ²¹ Standard CCC Frequency & Duration	0.36 ²⁰ Standard CMC Frequency & Duration	0.0019 ²¹ The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	
Endosulfan (alpha- and beta-)	959988 (alpha) 33213659 (beta)	P	0.11 ²⁰ Standard CMC Frequency & Duration	0.056 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	0.017 ²⁰ Standard CMC Frequency & Duration	0.0087 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	These criteria apply to the sum of alpha- endosulfan and beta-endosulfan.
Endrin	72208	P	0.086 Standard CMC Frequency & Duration	0.036 ²² Standard CCC Frequency & Duration	0.018 Standard CMC Frequency & Duration	0.0023 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	

²⁰ The 1980 EPA CMC criterion was divided by 2 to obtain values more comparable to derivations using the 1985 EPA Guidelines.²¹ The CCC did not consider exposure through the diet, which is probably important for aquatic life occupying upper trophic levels.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Gases, Total Dissolved	—		≤ 110% saturation	—	≤ 110% saturation	—	Criteria apply for gases at the existing atmospheric and hydrostatic pressures.
Guthion	86500		—	0.01 ²³ Standard CCC Frequency & Duration	—	0.01 ²³ Standard CCC Frequency & Duration	
Heptachlor	76448	P	0.3 ²⁴ Standard CMC Frequency & Duration	0.0038 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	0.03 ²⁴ Standard CMC Frequency & Duration	0.0036 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	
Heptachlor Epoxide	1024573	P	0.3 ²⁴ Standard CMC Frequency & Duration	0.0038 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	0.03 ²⁴ Standard CMC Frequency & Duration	0.0036 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	

²² The Fresh Water CCC did not consider exposure through the diet, which is probably important for aquatic life occupying upper trophic levels.²³ Criterion was developed using an 0.1 application factor applied to the 96-hour LC50.²⁴ The 1980 EPA CMC criterion was divided by 2 to obtain values more comparable to derivations using the 1985 EPA Guidelines.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Iron	7439896		—	1,000 Standard CCC Frequency & Duration	—	—	
Lead	7439921	P	the calculated concentration using the hardness- dependent equation as set forth in Appendix C ²⁵ Standard CMC Frequency & Duration	the calculated concentration using the hardness- dependent equation as set forth in Appendix C ²⁵ Standard CCC Frequency & Duration	210 Standard CMC Frequency & Duration	8.1 Standard CCC Frequency & Duration	1. Criteria are expressed as dissolved metal in the water column. 2. Hardness-dependent equations are used to develop the Fresh Water criteria for lead. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C. ²⁶ 3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G. 4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.

²⁵ The following are examples of lead criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 14 µg/L and CCC = 0.54 µg/L.

²⁶ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Malathion	121755		—	0.1 Standard CCC Frequency & Duration	—	0.1 Standard CCC Frequency & Duration	
Mercury	7439976	P	1.4 Standard CMC Frequency & Duration	0.77 Standard CCC Frequency & Duration	1.8 Standard CMC Frequency & Duration	0.94 Standard CCC Frequency & Duration	1. These criteria are expressed as dissolved metal in the water column. 2. Criteria may be adjusted using the water effects ratio (WER) as described in Footnote E.
Methoxychlor	72435		—	0.03 Standard CCC Frequency & Duration	—	0.03 Standard CCC Frequency & Duration	
Mirex	2385855		—	0.001 Standard CCC Frequency & Duration	—	0.001 Standard CCC Frequency & Duration	

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Nickel	7440020	P	the calculated concentration using the hardness-dependent equation as set forth in Appendix C ²⁷ Standard CMC Frequency & Duration	the calculated concentration using the hardness-dependent equation as set forth in Appendix C ²⁷ Standard CCC Frequency & Duration	74 Standard CMC Frequency & Duration	8.2 Standard CCC Frequency & Duration	1. Criteria are expressed as dissolved metal in the water column. 2. Hardness-dependent equations are used to develop the Fresh Water criteria for nickel. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C. ²⁸ 3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G. 4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.
Nonylphenol	84852153		28 Standard CMC Frequency & Duration	6.6 Standard CCC Frequency & Duration	7 Standard CMC Frequency & Duration	1.7 Standard CCC Frequency & Duration	
Nutrients	—		See 314 CMR 4.05(5)(c) Minimum Criteria.				

²⁷ The following are examples of nickel criteria calculated using a hardness of 25 mg/L as CaCO₃: CMC = 140 µg/L and CCC = 16 µg/L.

²⁸ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE	
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L
Oil and Grease	—		See 314 CMR 4.05(3) criteria for each class of water.		See 314 CMR 4.05(4) criteria for each class of water.	
Oxygen, Dissolved	7782447		See 314 CMR 4.05(3) criteria for each class of water.		See 314 CMR 4.05(4) criteria for each class of water.	
Parathion	56382		0.065	0.013	—	—
			Standard CMC Frequency & Duration	Standard CCC Frequency & Duration		
Pentachlorophenol	87865	P	the calculated concentration using the equation as set forth in Note 1.a. ²⁹	the calculated concentration using the equation as set forth in Note 1.b. ²⁹	13	7.9
			Standard CMC Frequency & Duration	Standard CCC Frequency & Duration	Standard CMC Frequency & Duration	Standard CCC Frequency & Duration
pH	—		See 314 CMR 4.05(3) criteria for each class of water.		See 314 CMR 4.05(4) criteria for each class of water.	
Phosphorus, Elemental			--	--	--	0.1
(also known as “P4”, “white phosphorus” and historically known as “yellow phosphorus”)						Standard CCC Frequency & Duration

²⁹ The following are examples of pentachlorophenol criteria corresponding to a pH of 7: CMC = 8.7 µg/L, CCC = 6.7 µg/L.

³⁰ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Polychlorinated Biphenyls (PCBs)		P	—	0.014 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	—	0.03 The average ambient surface water concentration over any 24-hour period shall not exceed the criterion more than once during any three year period.	These criteria apply to total PCBs (the sum of all homolog, all isomer, all congener, or all Aroclor analyses).
Radioactivity			See 314 CMR 4.05(5)(d) Minimum Criteria.				

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Selenium	7782492	P	the calculated concentration using the equation as set forth in Note 3 Standard CMC Frequency & Duration	5.0 Standard CCC Frequency & Duration	290 Standard CMC Frequency & Duration	71 ³¹ Standard CCC Frequency & Duration	1. Fresh Water criteria are expressed as total recoverable metal in the water column. 2. Coastal and Marine criteria are expressed as dissolved metal in the water column. 3. The freshwater CMC selenium equation is used to develop the criterion for selenium. The input parameters for each calculation using this equation shall consist of data for the fractions of total selenium as selenite and selenate, collected for the relevant location. ³² The freshwater CMC selenium equation is the following: $1/[(f1/CMC1) + (f2/CMC2)]$, where f1 and f2 are the fractions of total selenium as selenite and selenate, respectively, and CMC1 = 185.9 µg/l and CMC2 =12.82 µg/l. 4. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.

³¹ The CCC does not take into account uptake via the food chain; therefore, it is recommended that the status of the fish community be monitored whenever the concentration of selenium exceeds 5.0 µg/L.

³² 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA						
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE	
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L
Silver	7440224	P	the calculated concentration using the hardness-based equation as set forth in Appendix C ³³ Standard CMC Frequency & Duration	—	0.95 ³⁴ Standard CMC Frequency & Duration	—
<p>1. These criteria are expressed as dissolved metal in the water column.</p> <p>2. The hardness-dependent equation is used to develop the Fresh Water criterion for silver. The input parameters for the calculation using this equation shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.³⁵</p> <p>3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</p> <p>4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.</p>						
Solids and Turbidity	—		See 314 CMR 4.05(3) narrative criteria for each class of water.	See 314 CMR 4.05(4) narrative criteria for each class of water.		

³³ The following is an example of a criterion applying a hardness of 25 mg/L as CaCO₃: CMC = 0.30 µg/L.

³⁴ The 1980 EPA CMC criterion was divided by 2 to obtain a value more comparable to derivations using the 1985 EPA Guidelines.

³⁵ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³ µg/L</u>	<u>Criterion Continuous Concentration (CCC)⁴ µg/L</u>	<u>CMC³ µg/L</u>	<u>CCC⁴ µg/L</u>	
Sulfide-Hydrogen Sulfide	7783064		—	2.0 Standard CCC Frequency & Duration	—	2.0 Standard CCC Frequency & Duration	
Taste and Odor	—		See 314 CMR 4.05(3) narrative criteria for each class of water.		See 314 CMR 4.05(4) narrative criteria for each class of water.		
Temperature	—		See 314 CMR 4.05(3) criteria for each class of water.		See 314 CMR 4.05(4) criteria for each class of water.		
Toxaphene	8001352	P	0.73 Standard CMC Frequency & Duration	0.0002 Standard CCC Frequency & Duration	0.21 Standard CMC Frequency & Duration	0.0002 Standard CCC Frequency & Duration	
Tributyltin (TBT)	—		0.46 Standard CMC Frequency & Duration	0.072 Standard CCC Frequency & Duration	0.42 Standard CMC Frequency & Duration	0.0074 Standard CCC Frequency & Duration	

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29a: AQUATIC LIFE CRITERIA							
POLLUTANT	CAS NUMBER ¹	PRIORITY (P) ²	FRESH WATER		COASTAL & MARINE		NOTES
			<u>Criterion Maximum Concentration (CMC)³</u> µg/L	<u>Criterion Continuous Concentration (CCC)⁴</u> µg/L	<u>CMC³</u> µg/L	<u>CCC⁴</u> µg/L	
Zinc	7440666	P	the calculated concentration using the applicable hardness-dependent equation as set forth in Appendix C ³⁶ Standard CMC Frequency & Duration	the calculated concentration using the applicable hardness-dependent equation as set forth in Appendix C ³⁶ Standard CCC Frequency & Duration	90 Standard CMC Frequency & Duration	81 Standard CCC Frequency & Duration	<p>1. Criteria are expressed as dissolved metal in the water column.</p> <p>2. Hardness-dependent equations are used to develop the Fresh Water criteria for zinc. The input parameters for each calculation using these equations shall consist of ambient surface water data for hardness, collected for the relevant location, and other parameters as provided in Appendix C.³⁷</p> <p>3. In certain contexts, use of a criterion may require applying a conversion factor to translate dissolved concentrations to total recoverable metal concentrations, or vice versa. Conversion factors for specified metals and the method for their application are set forth in Appendix G.</p> <p>4. Criteria may be adjusted using the water effects ratio (WER) as described in Appendix E.</p>

³⁶ The following are examples of criteria applying a hardness of 25 mg/L as CaCO₃: CMC = 36 µg/L and CCC = 37 µg/L.

³⁷ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

4.06: continued

29a: AQUATIC LIFE CRITERIA**APPENDIX A: Default Freshwater Aluminum Criteria by Watershed (River Basin or Coastal Drainage Area)***

Default Freshwater Aluminum Criteria by Watershed (River Basin or Coastal Drainage Area)*		
River Basin or Coastal Drainage Area	CMC† (Acute) µg/L	CCC† (Chronic) µg/L
Blackstone	542	270
Boston Harbor/Charles	970	390
Buzzards Bay/Mt Hope Bay/Narragansett Bay/Taunton/Ten-Mile	490	260
Cape Cod Coastal	**	**
Chicopee (5 th percentile)	291	171
Connecticut (5 th percentile)	630	300
Deerfield	450	220
Farmington/Westfield (5 th percentile)	309	180
French/Quinebaug	580	280
Housatonic/Hudson	1400	520
Ipswich/North Coastal/Parker	954	406
Islands Coastal	**	**
Merrimack/Shawsheen (5 th percentile)	470	259
Millers	340	210
Nashua (5 th percentile)	350	200
South Coastal	1200	460
Sudbury, Assabet, and Concord (SuAsCo)	954	394
*Defaults are based on 10 th percentile criteria calculated from concurrent pH, DOC, and hardness data, except watersheds marked as 5 th percentile to protect state and federal endangered species. ** Insufficient data are available to calculate watershed-based default criteria. †The CMC = Criterion Maximum Concentration and the CCC = Criterion Continuous Concentration		

4.06: continued

29a: AQUATIC LIFE CRITERIA**APPENDIX B: Freshwater Ammonia Criteria Calculations**

Criteria for ammonia as total ammonia nitrogen (mg/L TAN) are pH- and temperature-dependent. Criteria are derived in accordance with the formulas set forth below, where MIN indicates the lesser of the two values separated by a comma and T is temperature in degrees Celsius. The criterion maximum concentration (CMC or acute) formula differs according to the presence or absence of fish in the family Salmonidae.

1. The CMC (acute) calculation:

- a. The following equation shall be used when Salmonidae species are present. Salmonidae species are presumed present in surface waters designated Cold Waters in 314 CMR 4.00; in MA Division of Fisheries and Wildlife's designated Cold Water Fisheries Resources (CFR); in surface waters where applicable data indicate the definition of a Cold Water Fishery is met ("Cold Water Fishery existing use"); and, as a rebuttable presumption, in any tributary to such designated Cold Waters, CFRs, or Cold Water Fishery existing uses:

$$CMC \text{ present} = MIN \left(\left(\frac{0.275}{1+10^{7.204-pH}} + \frac{39.0}{1+10^{pH-7.204}} \right), \left(0.7249 \times \left(\frac{0.0114}{1+10^{7.204-pH}} + \frac{1.6181}{1+10^{pH-7.204}} \right) \times (23.12 \times 10^{0.036 \times (20-T)}) \right) \right), \text{ or}$$

- b. The following equation shall be used when Salmonidae species are absent. Salmonidae species are presumed absent in surface waters designated Warm Waters in 314 CMR 4.00; and in surface waters that are not designated Cold Waters, CFRs or indicated Cold Water Fisheries or tributary to such designated Cold Waters, CFRs or indicated Cold Water Fisheries:

$$CMC \text{ absent} = 0.7249 \times \left(\frac{0.0114}{10^{7.204-pH}} + \frac{1.6181}{1+10^{pH-7.204}} \right) \times MIN(51.93, 23.12 \times 10^{0.036 \times (20-T)})$$

2. The following Criterion Continuous Concentration (CCC or chronic) calculation shall be used in all surface waters:

$$CCC = 0.8876 \times \left(\frac{0.0278}{1+10^{7.688-pH}} + \frac{1.1994}{1+10^{pH-7.688}} \right) \times (2.126 \times 10^{0.028 \times (20-MAX(T,7))})$$

4.06: continued

29a: AQUATIC LIFE CRITERIA**APPENDIX C: Equations and Parameters for Calculating Hardness-Dependent Freshwater Dissolved Metals Criteria**

1. Fresh Water criteria for various ambient surface water hardness values shall be calculated using the following hardness-dependent equations:
 - a. For CMC using the equation: $CMC (dissolved) = \exp\{m_A [\ln (hardness)] + b_A\}$ (CF)
 - b. For CCC using the equation: $CCC (dissolved) = \exp\{m_C [\ln (hardness)] + b_C\}$ (CF)
2. The hardness parameter used in the foregoing equations shall be obtained from the ambient surface water for the relevant location³⁸, except that when the hardness is greater than 400mg/L a default hardness of 400 mg/L may be used or, alternatively, the following procedures may be used:
 - a. for all metals listed in the following table, with the exception of copper, the actual hardness in the applicable hardness-dependent equation, where the resultant criteria is then adjusted by a WER calculated in accordance with Appendix E; or
 - b. for copper only, the Biotic Ligand Model (BLM) as set forth in Appendix D, in place of the hardness-dependent equations.
3. The other parameters used in the foregoing hardness-dependent equations shall be obtained from the applicable entries in the following table:

Parameters for Calculating Freshwater Dissolved Metals Criteria That Are Hardness-Dependent						
Chemical	m_A	b_A	m_C	b_C	Freshwater Conversion Factors (CF)	
					CMC	CCC
Cadmium ³⁹	0.9789	-3.866	0.7977	-3.909	$1.136672 - [(\ln hardness)(0.041838)]$	$1.101672 - [(\ln hardness)(0.041838)]$
Chromium III	0.8190	3.7256	0.8190	0.6848	0.316	0.860
Copper	0.9422	-1.700	0.8545	-1.702	0.960	0.960
Lead ⁴⁰	1.273	-1.460	1.273	-4.705	$1.46203 - [(\ln hardness)(0.145712)]$	$1.46203 - [(\ln hardness)(0.145712)]$
Nickel	0.8460	2.255	0.8460	0.0584	0.998	0.997
Silver	1.72	-6.59	—	—	0.85	—
Zinc	0.8473	0.884	0.8473	0.884	0.978	0.986

³⁸ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

³⁹ When an ambient hardness of less than 25 mg/L is used to establish criteria for cadmium or lead, if the calculated hardness-dependent Conversion Factor (CF) is greater than one, it shall default to one.

4.06: continued

29a: AQUATIC LIFE CRITERIA**APPENDIX D: Calculation of Copper Criteria Using the Biotic Ligand Model**

Criteria for copper in fresh waters calculated using the BLM shall be subject to the following⁴⁰:

1. In fresh waters only, criteria for aquatic life shall be determined in accordance with the procedure published in EPA's "Aquatic Life Ambient Freshwater Quality Criteria – Copper, 2007 Revision" (EPA-822-R-07-001), which consists of a computational method referred to as "the Biotic Ligand Model for copper" ("the copper BLM"), and which shall be implemented only through software developed for that purpose and approved by MassDEP.
2. For calculating copper aquatic life criteria in freshwater using the copper BLM, MassDEP has approved the copper BLM software version 2.2.3 ("Model 2.2.3"), published by EPA in 2007 and available from MassDEP's website at www.mass.gov.
3. Software updates to Model 2.2.3 may be approved without amendment of this regulation, subject to the following:
 - a. MassDEP's advance written approval is required;
 - b. all updates shall use the toxicity data and water quality criteria calculations referenced in EPA-822-R-07-001, without modification; and
 - c. all updates shall only be made for demonstrated purposes of improving compatibility with current computer operating systems, usability or computational efficiency.
4. Updates to Model 2.2.3 that do not comply with all of the requirements listed in Appendix D.3. to Table 29a: Aquatic Life Criteria, shall only be implemented by amending this regulation.
5. Model 2.2.3 and updates approved pursuant to Appendix D.3. to Table 29a: Aquatic Life Criteria shall be published on MassDEP's website at www.mass.gov or be made available by request to MassDEP.

⁴⁰ 314 CMR 4.05(5)(e)2.d. specifies required methods of data collection and final criteria derivation for equation- and model-based criteria where discharge of a toxic pollutant requires a surface water discharge permit under 314 CMR 3.00. 314 CMR 4.03(1)(a) requires consideration of downstream uses when applying these criteria.

4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX E: Adjustment of Criteria Using the WER or the Streamlined WER (Copper Only)

1. For specified metals (as noted in Table 29a: Aquatic Life Criteria), criteria may be adjusted in accordance with the procedure published in EPA's "Interim Guidance on Determination and Use of Water-Effect Ratios for Metals, February 1994" (EPA-823-B-94-001) and as clarified and updated by EPA's Aquatic Life Guidelines Committee memo titled "Modifications to Guidance Site-Specific Criteria" dated December 3, 1997 (collectively, the WER). A workplan and/or sampling plan and quality assurance project plan (QAPP) is required for use of the WER and shall be subject to MassDEP's advance written approval.
2. For copper in salt waters (also as noted in Table 29a: Aquatic Life Criteria) only, the criteria may, in the alternative, be adjusted in accordance with the procedure published in EPA's "Streamlined Water-Effect Ratio Procedure for Discharges of Copper" (Streamlined WER, EPA-822-R-01-005), as applicable. A workplan and/or sampling plan and quality assurance project plan (QAPP) is required for either procedure and shall be subject to MassDEP's advance written approval.

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4.06: continued

29a: AQUATIC LIFE CRITERIA

APPENDIX F: Determining the Applicability of Freshwater and Coastal and Marine Criteria

The fresh water and coastal and marine aquatic life criteria apply to a specific location as follows:

1. for water in which the salinity is equal to or less than 1 part per thousand (ppt) 95% or more of the time, the applicable criteria are the fresh water criteria;
2. for water in which the salinity is equal to or greater than 10 ppt 95% or more of the time, the applicable criteria are the coastal and marine criteria; and
3. for water in which the salinity is between 1 and 10 ppt 95% or more of the time, the applicable criteria are the more stringent of the Fresh Water or Coastal and Marine criteria; or, alternatively, the criteria may be selected based on scientifically defensible information demonstrating that the biology of the surface water at the location is dominated by Fresh Water aquatic life and that Fresh Water criteria are more appropriate; or conversely, the biology of the water body is dominated by Coastal and Marine aquatic life and that Coastal and Marine criteria are more appropriate.

4.06: continued

29a: AQUATIC LIFE CRITERIA**APPENDIX G: Conversion Factors (CF) to Convert from Total to Dissolved or from Dissolved to Total Concentrations**

Conversion Factors (CF) to Convert from Total to Dissolved Concentrations (multiply by CF) or Convert from Dissolved to Total Concentrations (divide by CF)				
Metal	CF for Freshwater CMC	CF for Freshwater CCC	CF for Saltwater CMC	CF for Saltwater CCC
Arsenic	1.000	1.000	1.000	1.000
Cadmium	$1.136672 - [(ln \text{ hardness})(0.041838)]$	$1.101672 - [(ln \text{ hardness})(0.041838)]$	0.994	0.994
Chromium III	0.316	0.860	—	—
Chromium VI	0.982	0.962	0.993	0.993
Copper	0.960	0.960	0.83	0.83
Lead	$1.46203 - [(ln \text{ hardness})(0.145712)]$	$1.46203 - [(ln \text{ hardness})(0.145712)]$	0.951	0.951
Mercury	0.85	0.85	0.85	0.85
Nickel	0.998	0.997	0.990	0.990
Selenium	0.996	0.922	0.998	0.998
Silver	0.85	—	0.85	—
Zinc	0.978	0.986	0.946	0.946

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Acenaphthene	83329	P	70	90	20	
Acrolein	107028	P	3	400		
Acrylonitrile	107131	P	0.061	7.0		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Aldrin	309002	P	0.00000077	0.00000077		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Ammonia	7664417		--	--	30 mg/L*	*Taste Threshold—From EPA's 2018 Edition of the Drinking Water Standards and Health Advisories Tables, March 2018 (EPA 822-F-18-001)
Anthracene (polycyclic aromatic hydrocarbon or PAH)	120127	P	300	400		
Antimony	7440360	P	5.6	640		Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day as applicable.
Arsenic	7440382	P	0.018	0.14		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. These recommended water quality criteria refer only to the inorganic form of arsenic. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
Asbestos	1332214	P	7 million fibers/L	—		Criterion was determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Bacteria (Pathogens)			*	*		*See 314 CMR 4.05(5)(f) for Minimum Criteria and 314 CMR 4.05(3) and (4) for criteria applicable to each class of water. Criteria are based on primary recreation exposure.
Barium	7440393		1,000	—		Criterion was determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day.
Benzene	71432	P	0.58-2.1	16-58		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Benzidine	92875	P	0.00014	0.011		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Benzo(a)anthracene (PAH)	56553	P	0.0012	0.0013		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Benzo(a)pyrene (PAH)	50328	P	0.00012	0.00013		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Benzo(b)fluoranthene (PAH) (also known as 3,4-benzofluoranthene)	205992	P	0.0012	0.0013		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Benzo(k)fluoranthene (PAH)	207089	P	0.012	0.013		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Beryllium	7440417		3.7 ng/L	64 ng/L		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Bis(2-Chloroethyl) Ether	111444	P	0.03	2.2		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Bis(Chloromethyl) Ether	542881		0.00015	0.017		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Bis(2-Chloro-1-methylethyl) Ether (also known as Bis(2-Chloroisopropyl) Ether)	108601	P	200	4,000		
Bis(2-Ethylhexyl) Phthalate (also known as Di(2-Ethylhexyl)-Phthalate)	117817	P	0.32	0.37		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.

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4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Bromoform* (also known as tribromomethane)	75252	P	7.0	120		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. *See also total trihalomethanes.
Butylbenzyl Phthalate	85687	P	0.10	0.10		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Cadmium	7440439	P	5	—		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993). Criterion was determined assuming a human body weight of 70-kilograms and a drinking water consumption rate of 2 liters/day.
Carbon Tetrachloride	56235	P	0.4	5		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Chlordane	57749	P	0.00031	0.00032		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Chlorobenzene (also known as monochlorobenzene)	108907	P	100	800	20	
Chlorodibromomethane* (also known as dibromochloromethane)	124481	P	0.80	21		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. *See also total trihalomethanes.
Chloroform* (also known as trichloromethane)	67663	P	60	2,000		*See also total trihalomethanes.
2-Chloronaphthalene	91587	P	800	1,000		
2-Chlorophenol	95578	P	30	800	0.1	
3-Chlorophenol	--				0.1	
4-Chlorophenol	106489		--	--	0.1	
Chlorophenoxy Herbicide (also known as 2,4-D)	94757		70	12,000		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993) and was determined assuming a 70 kg adult ingests 2 liters/day of drinking water.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Chlorophenoxy Herbicide (also known as 2,4,5-TP or Silvex)	93721		50	400		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1996) and was determined assuming a 70 kg adult ingests 2 liters/day of drinking water.
Chromium (total)	7440473	P	100	—		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993) and was determined assuming a 70 kg adult ingests 2 L/day of drinking water and that 0.71 of the total exposure to chromium is through drinking water.
Chrysene (PAH)	218019	P	0.12	0.13		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. EPA has issued a Maximum Contaminant Level for this chemical which may be more stringent.
Copper	7440508	P	1,300	—	1,000	The exposure criterion is based on carcinogenicity of 10 ⁻⁶ risk. The exposure criterion was determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day.
Cyanide	57125	P	4	400		These recommended water quality criteria are expressed as µg total cyanide (i.e., zinc-potassium cyanide, free potassium cyanide and hydrocyanic acid).
Dibenzo(a,h)anthracene	53703	P	0.00012	0.00013		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
1,2-Dichlorobenzene (also known as o-DCB)	95501	P	600	3,000		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993) and was determined by assuming that a 70 kg adult ingests 2 liters/day of water.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
1,3-Dichlorobenzene	541731	P	7	10		
1,4-Dichlorobenzene (also known as p-DCB)	106467	P	5*	900		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1993).
3,3'-Dichlorobenzidine	91941	P	0.049	0.15		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Dichlorobromomethane* (also known as Bromodichloromethane)	75274	P	0.95	27		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. *See also total trihalomethane.
p,p'-Dichlorodiphenyldichloroethane (also known as DDD)	72548	P	0.00012	0.00012		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
p,p'-Dichlorodiphenyldichloroethylene (also known as DDE)	72559	P	0.000018	0.000018		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
p,p'-Dichlorodiphenyltrichloroethane (also known as DDT)	50293	P	0.000030	0.000030		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
1,2-Dichloroethane	107062	P	5	650		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1989). The criterion is based on the 1,2-dichloroethane practical quantitation limit (PQL)
1,1-Dichloroethylene	75354	P	7	20,000		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1989). The criterion is based on the 1,1-dichloroethylene PQL.
2,3-Dichlorophenol	--		--	--	0.04	
2,4-Dichlorophenol	120832	P	10	60	0.3	
2,5-Dichlorophenol			--	--	0.5	

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
2,6-Dichlorophenol			--	--	0.2	
3,4-Dichlorophenol			--	--	0.3	
1,2-Dichloropropane	78875	P	0.90	31		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
1,3-Dichloropropene	542756	P	0.27	12		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Dieldrin	60571	P	0.0000012	0.0000012		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Diethyl Phthalate	84662	P	600	600		
2,4-Dimethylphenol	105679	P	100	3,000	400	
Dimethyl Phthalate	131113	P	2,000	2,000		
Di-n-Butyl Phthalate	84742	P	20	30		
Dinitrophenols	25550587		10	1,000		
2,4-Dinitrophenol	51285	P	10	300		
2,4-Dinitrotoluene	121142	P	0.049	1.7		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Dioxin (also known as 2,3,7,8-Tetrachloro-dibenzo-p-dioxin or TCDD)	1746016	P	5.0E-9	5.1E-9		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
1,2-Diphenylhydrazine	122667	P	0.03	0.2		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Endosulfan-alpha	959988	P	20	30		
Endosulfan-beta	33213659	P	20	40		
Endosulfan Sulfate	1031078	P	20	40		
Endrin	72208	P	0.03	0.03		
Endrin Aldehyde	7421934	P	1	1		
Ethylbenzene	100414	P	68	130		
Fluoranthene	206440	P	20	20		

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4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Fluorene (PAH)	86737	P	50	70		
Heptachlor	76448	P	0.0000059	0.0000059		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Heptachlor Epoxide	1024573	P	0.000032	0.000032		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Hexachlorobenzene	118741	P	0.000079	0.000079		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Hexachlorobutadiene	87683	P	0.01	0.01		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Hexachlorocyclohexane–alpha (also known as alpha-HCH)	319846	P	0.00036	0.00039		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Hexachlorocyclohexane-beta (also known as beta-HCH)	319857	P	0.008	0.014		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Hexachlorocyclohexane-gamma (also known as gamma-HCH or Lindane)	58899	P	0.2	4.4		The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1991) and was determined assuming a human body weight of 70-kilograms and a drinking water ingestion rate of 2 liters/day.
Hexachlorocyclohexane –Technical (also known as technical HCH)	608731		0.0066	0.010		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Hexachlorocyclopentadiene	77474		4	4	1	
Hexachloroethane	67721	P	0.1	0.1		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Indeno(1,2,3-cd) pyrene (PAH)	193395	P	0.0012	0.0013		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Iron	7439896				300	
Isophorone	78591	P	34	1,800		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Manganese	7439965		50	100		The Drinking Water Plus Fish and Shellfish Consumption criterion for manganese is not based on toxic effects, but rather is intended to minimize qualities such as laundry stains and objectionable tastes in beverages. The Fish & Shellfish Consumption Only criterion was determined assuming a human body weight of 70-kilograms, and a fish consumption rate of 17.5 grams/day.
Mercury (inorganic)	--		2	--		The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (2004) and was determined assuming a human body weight of 70-kilograms and a drinking water ingestion rate of 2 liters/day.
Methylmercury	22967926	P	—	0.3 mg/kg		The Fish and Shellfish Consumption Only criterion was determined assuming a human body weight of 70-kilograms, and a fish consumption rate of 17.5 grams/day.
Methoxychlor	72435		0.02	0.02		
2-Methyl-4-Chlorophenol	--		--	--	1,800	
3-Methyl-4-Chlorophenol (also known as p-chloro-m-cresol)	59507	P	500	2,000	3,000	
3-Methyl-6-Chlorophenol	--				20	
2-Methyl-4,6-Dinitrophenol	534521	P	2	30		
Methyl Bromide	74839	P	100	10,000		

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29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Methyl tertiary butyl ether (MTBE)	1634044		70	--	20*	The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the ORSG††. This ORSG is derived assuming that a 70 kg adult ingests 2 liters/day of water. *Odor Threshold – From EPA's 2018 Edition of the Drinking Water Standards and Health Advisories Tables, March 2018 (EPA 822-F-18-001)
Methylene Chloride (also known as Dichloromethane)	75092	P	5	1,000		The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1995) and was derived based on the Practical Quantitation Limit (PQL) for Methylene Chloride. The Fish and Shellfish Consumption Only criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Monochlorobenzene	108907		--	--	20	
Nickel	7440020	P	100	4,600		The Drinking Water Plus Fish and Shellfish Consumption criterion is based on the ORSG††. This ORSG is derived assuming that an adult ingests 2 L/day of water. The criteria were determined assuming a human body weight of 70-kilograms and a fish consumption rate of 17.5 grams/day.
Nitrate (as N) (criterion also applies to total nitrate/nitrite)	14797558		10,000	—		Criterion was determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day.

314 CMR: DIVISION OF WATER POLLUTION CONTROL

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29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Nitrite	14797650		1,000	--		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1996) and was derived assuming that a 4 kg infant ingests 0.64 L of formula per day.
Nitrobenzene	98953	P	10	600	30	
Nitrosamines	—		0.0008	1.24		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
Nitrosodibutylamine	924163		0.0063	0.22		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
Nitrosodiethylamine	55185		0.0008	1.24		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.

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4.06: continued

29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) $\mu\text{g/L}$	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ $\mu\text{g/L}$	FISH & SHELLFISH CONSUMPTION ONLY $\mu\text{g/L}$		
Nitrosopyrrolidine	930552		0.016	34		The exposure criteria are based on carcinogenicity of 10^{-6} risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
N-Nitrosodimethylamine (also known as NDMA)	62759	P	0.00069	3.0		The exposure criteria are based on carcinogenicity of 10^{-6} risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
N-Nitrosodi-n-Propylamine	621647	P	0.0050	0.51		The exposure criteria are based on carcinogenicity of 10^{-6} risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
N-Nitrosodiphenylamine	86306	P	3.3	6.0		The exposure criteria are based on carcinogenicity of 10^{-6} risk. Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
Pentachlorobenzene	608935		0.1	0.1		
Pentachlorophenol	87865	P	0.03	0.04	30	The exposure criteria are based on carcinogenicity of 10^{-6} risk.

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29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
pH	—		See 314 CMR 4.05(3) and 4.05(4) criteria for each class of water.			
Phenol	108952	P	4,000	300,000	300	
Polychlorinated Biphenyls (PCBs)		P	0.000064	0.000064		<p>The exposure criteria are based on carcinogenicity of 10⁻⁶ risk.</p> <p>This criterion applies to total PCBs (e.g., the sum of all congener or all isomer or homolog or Aroclor analyses).</p> <p>Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.</p>
Pyrene (PAH)	129000	P	20	30		
Radioactivity			See 314 CMR 4.05(5)(d) Additional Minimum Criteria.			
Selenium	7782492	P	50	4,200		<p>Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (1996) and was determined assuming a human body weight of 70-kilograms and a drinking water consumption rate of 2 liters/day.</p> <p>Fish and Shellfish Consumption Only Criterion was determined assuming a human body weight of 70-kilograms and a fish consumption rate of 17.5 grams/ day.</p>
Sodium	7440235		--	--	30-60 mg/L*	*Taste Threshold – From EPA's 2018 Edition of the Drinking Water Standards and Health Advisories Tables, March 2018 (EPA 822-F-18-001)

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29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
Solids (Dissolved) and Salinity	—		250,000	—		This criterion applies to the total of chlorides and sulfates.
Sulfate			--	--	250 mg/L*	*Taste Threshold – From EPA's 2018 Edition of the Drinking Water Standards and Health Advisories Tables, March 2018 (EPA 822-F-18-001)
1,2,4,5-Tetrachlorobenzene	95943		0.03	0.03		
Tetrachloroethylene	127184	P	10	29		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
1,1,2,2-Tetrachloroethane	79345	P	0.2	3		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
2,3,4,6-Tetrachlorophenol	--		--	--	1	
Thallium	7440280	P	0.24	0.47		Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.
Toluene	108883	P	57	520		
Total Trihalomethanes (TTHM) (the sum of bromodichloromethane, dibromochloromethane, bromoform (tribromomethane) and chloroform (trichloromethane))			80	--		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL (2004).
Toxaphene	8001352	P	0.00070	0.00071		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Trans-1,2-Dichloroethylene	156605	P	100	4,000		
1,2,4-Trichlorobenzene	120821	P	0.071	0.076		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Trichloroethylene	79016	P	0.6	7		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.

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29b: HUMAN HEALTH CRITERIA†						
POLLUTANT	CAS NUMBER	PRIORITY (P)	EXPOSURE TYPE		ORGANOLEPTIC EFFECT (TASTE AND ODOR) µg/L	NOTES
			DRINKING WATER PLUS FISH & SHELLFISH CONSUMPTION‡ µg/L	FISH & SHELLFISH CONSUMPTION ONLY µg/L		
1,1,1-Trichloroethane	71556	P	200	200,000		Drinking Water Plus Fish and Shellfish Consumption criterion is based on the MMCL and assumes a human body weight of 70-kilograms and a drinking water consumption rate of 2 liters/day.
1,1,2-Trichloroethane	79005	P	0.55	8.9		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
2,4,5-Trichlorophenol	95954		300	600	1	
2,4,6-Trichlorophenol	88062	P	1.5	2.8	2	The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Vinyl Chloride	75014	P	0.022	1.6		The exposure criteria are based on carcinogenicity of 10 ⁻⁶ risk.
Zinc	7440666	P	7,400	26,000	5,000*	Criteria were determined assuming a human body weight of 70-kilograms, a drinking water consumption rate of 2 liters/day, and a fish consumption rate of 17.5 grams/day, as applicable.

† Metals criteria are expressed as total concentrations. To identify Massachusetts Maximum Contaminant Levels (MMCL) for pollutants not listed in this table, see 310 CMR 22.00: *Drinking Water*.

†† The MassDEP Office of Research and Standards (ORS) issues guidance for chemicals other than those with Massachusetts MCLs in drinking water. These ORS guidance values are known as ORS Guidelines or ORSG and are usually developed for use by Departmental programs in the absence of any other federal standards or guidance. ORS uses methodologies similar to that used by the EPA's Office of Groundwater and Drinking Water (OGWDW) when setting guidelines for chemicals in drinking water.

‡ Unless otherwise noted, criteria are based on a human body weight of 80 kilograms, a water intake rate of 2.4 liters/day (representing the per capita estimate of combined direct and indirect household tapwater ingestion at the 90th percentile for U.S. adults ages 21 and older), and an organism ingestion rate of 22 grams/day (representing the 90th percentile consumption rate of finfish and shellfish from inland and nearshore waters for U.S. adults ages 21 and older).

4.06: continued

REGULATORY AUTHORITY

314 CMR 4.00: M.G.L. c. 21, § 27.

DRAFT